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AUTHOR Knight, Martha F.; And Others

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ABUTRACT

Presented is the 1972-73 report of the second year of the Essential Early Education Project in two Vermont school districts to identify 5-year-old children eligible for special education. develop materials for dissemination, and continue the home-based parent training program. Noted is the refinement and replication of survey and testing procedures leading to the development of a census and survey manual and derivation of minimum objectives for the kindergarten year and from birth to 6 years of age. Seen to be essential to home-based services are 10 steps such as defining target behaviors and specifying and implementing teaching/learning procedures. Also reported is research on the effects of variables related to training parents, the validity of survey and testing procedures, and estimated incidences of eligible children. The major portion of the document consists of appendixes containing the following informat.on: case studies, procedural guidelines for surveying parents and identifying children eligible for essential early education services, minimum objectives for entering first graders, procedures for the social and self-care inventory, the minimum objectives sequenced for the kindergarten year, minimum objectives sequenced for first 6 years, and an article on the effects of feedback in parent training. (DB)

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1972-1973 REPORT

of the

ESSENTIAL EARLY EDUCATION PROJECT

of the

UNIVERSITY of VERMONT

SPECIAL EDUCATION AREA

COLLEGE of EDUCATION and SOCIAL SERVICES

in cooperation with the

COLCHESTER SCHOOL DISTRICT,

the

CHITTENDEN SOUTH SCHOOL DISTRICT

and the

DIVISION of SPECIAL EDUCATION

and PUPIL PEPSONNEL SERVICES

of the

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Submitted by:

Martha F. Knight B.J. Lates Hugh S. McKenzie Susan Sousie





The University of Vermont



COLLEGE OF EDUCATION, SPECIAL EDUCATION PROGRAM
CONSULTING TEACHER PROGRAM, 2 COLCHESTER AVENUE
BURLINGTON, VERMONT 05408

ESSENTIAL EARLY EDUCATION PROJECT

The materials in this report apply to the five year old child.and are to be used only for those children living in the district for which minimum objectives and test materials were derived. While it is possible that the basic procedures can be replicated successfully in other areas and for other age groups, sufficient data is not available at this time to support this.



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 The Effects of Daily Feedback in Parent
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INTRODUCTION

In the second year of the Essential Early Education Project, two major efforts were identification of five year old children eligible for special education and development of materials for dissemination. Survey and testing procedures initiated during the first year, 1971-1972, were refined and replicated in the Colchester and Chittenden South School Districts during 1972-1973. These replications enabled the development of a census and survey manual; the refinement of testing procedures; and the derivation of minimum objectives sequenced for the kindergarten year and from birth to six years of age. Refinement of testing procedures, included the addition of an entry level test for the social/self-care areas. This test and the language/motor test provided the measures needed for comprehensive assessment of four and five year old children.

A third effort was the continuation of nome-based service through parent training. Procedures were refined such that ten steps were identified as essential to provide home-based service. Effective teaching/learning procedures were identified and described in case study form.

The final efforts were researching the effects of variables related to training parents, researching the validity of survey and testing procedures and estimating percentages of eligible children in a given population.

Colchester

Letters of explanation and parent questionnaires (see Appendix ii) were mailed in October, 1972, to 207 parents living in Colchester, A second mailing to parents not responding to the initial mailing was made in November. By February 1973, all parents had responded to the questionnaire.

Twenty-four questionaires indicated that special help might be needed before entering first grade. These children were tested on the language/motor test by EEEP staff members during January, 1973.

Williston

The results of the 1971 Williston census identified 66 residents as parents of five year old children. Letters of explanation and parent questionnaires (see Appendix ii) were mailed in December, 1972 to these parents. Returned questionnaires revealed that only 57 parents had five year old children and nine parents had moved or did not have a five year old child. Eight parents indicated on the questionnaire that special help might be needed before entiring first grade. By the end of January, 1973 these children were tested.

In May, 1973, parents of four and five year old children were sent questionnaires so that testing of children who might need special help could be conducted. Testing was completed in June, 1973. Five of these children were determined eligible and are currently receiving service.



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During 1972-1973 a total of nine children, six from Colchester* and three from Williston, were served. (See appendix i) A team of seven consulting teachers-in-training and two project technicians acted as parent trainers visiting the homes at least weekly. The two coordinators of the project conferred with the parent trainers at least weekly to review the data and suggest alternatives. All parent trainers followed the service procedures specified below.

Step I: Survey

Parent receives an explanatory letter and completes questionnaire indicating whether or not their child needs special help in learning language, motor, social, or self-care skills prior to first grade entry.

Step II: Referral

Parent returns the questionnaire indicating their child may need special help in one or more of the four skills areas.

Step III: Entry Level Measures

The parent trainer administers an entry level test in the home.

Step IV: Eligibility for Service

The parent trainer and the parent review the entry . level test results. If the child has not achieved

^{*} Service to the sixth child in Colchester was implemented in March, 1973. (See case study Kenneth in Appendix i.)



estimates that the child will not achieve criterion by the time he enters first grade, the child is eligible for special education service. The parent signs a permission form indicating informed consent.

Step V: Target Behavior(s) Defined and Measurement Procedure(s) Specified

The parent trainer and parent define the behavior(s) of concern (target behavior) and the minimum objectives to be achieved. Measurement procedures and learning materials are specified and incorporated into the home routine.

Step VI: Home Observation(s)

The parent trainer observes the baseline procedures and obtains second observer measures. Possible teaching/learning procedures that may accelerate progress toward objectives are noted. (This observation procedure is repeated at weekly intervals.)

Step VII: Teaching/Learning Procedures Specified and Implemented

Teaching/learning procedures are specified and implemented on a daily basis in the home setting.

Step VIII: Evaluation

Teaching/learning procedures are evaluated in terms of accelerated progress so that the child achieves minimum objectives by the time he enters first grade.

Step IX: Continuation of Service

Steps V through VIII are repeated for each minimum objective.





Step X: Follow-up

Periodic testing is conducted to assess continued progress. Referral for special education services in the school setting are arranged if minimum objectives are not achieved by that time.



Manual of Procedures for Surveying Parents and Identifying Eligible Children

A manual of procedural guidelines for surveying parents and identifying children eligible for essential early education services was compiled. (see Appendix ii) Two general procedures are presented in the manual. One survey procedure was developed for use in school districts which conduct an annual school census (e.g., Chittenden Central School District and Colchester School District). The other survey procedure was developed for use in a school district for which an annual school census is not conducted (e.g., Williston Central School in the Chittenden South Supervisory District).

Minimum Objectives

During October and November, 1972, all first grade teachers in the Colchester elementary schools and primary unit teachers in the Williston Central School cooperated in the revision of minimum objectives for entering first graders. All first grade teachers in Colchester and Williston met with the EEEP coordinators to revise objectives that had been derived in cooperation with Chittenden Central School District first grade teachers in 1971-1972. This resulted in a revised set of minimum objectives (see Appendix iii)

Entry Level Tests

The entry level test for measuring language and motor skills was revised by November, 1972 and field tested at the Taft School, Winooski Day Care Center and in the South Burlington School District. (see Appendix ii) In



addition, an entry level test for measuring social and selfcare skills was developed by April 1973 and field tested
in Colchester and Williston homes. These two tests
provide a comprehensive system for measuring all the minimum
objectives used in determining eligibility for four and five
year old children. (see Appensix iv)

Minimum Objectives Sequenced for Kindergarten and Estimated from Birth to Six Years of Age

The minimum objectives derived for entering first graders served as a basis for sequencing monthly objectives to be achieved during the kindergarten year. These kindergarten objectives and the developmental lists of other early education programs* served as the basis for estimating a sequence of minimum objectives to be achieved from birth to the sixth year. (see Appendix vi)

Parent Training Research

Members of the Essential Early Education Project staff met weekly to develop research strategies and to review results of the implemented research procedures. One proposal developed and implemented by consulting-teacher-in-training, Rosemary Getsie, assessed the role of feedback for initiating and maintaining parent performance. The dependent variables measured were parent

^{*} Sequences used were
The Special Children's Center Developmental Chart, Ithama, N.Y.,:
The Denver Developmental Screening Test.
The Vermont Association for Crippled Children Developmental
Activities (ages 2-5)
The West Central Illinois Special Education Cooperative
Developmental Tests



behaviors of presenting stimulus cards, recording child responses, prompting the child at specified times and praising the child's correct responses. The independent variable assessed was the frequency of feedback delivered during home visits. The quality and quantity of feedback remained constant while the frequency of feedback varied from weekly to daily across four conditions in an ABAB design.

Parent behaviors were consistently low during weekly feedback conditions and high during daily feedback conditions indicating that frequent feedback is necessary in training parents to implement teaching/learning procedures in the home. (see Appendix viii)

Case Studies 1971-1972

During the 1971-1972 school year eight children residing in the Chittenden Central School District were served. (see Appendix vii) Six of these children were five years of age and were referred by their parents after completing the EEEP parent questionnaire. One of the remaining children was six years old and referred by the Chittenden Central School District Elementary Supervisor; the other was four years old and referred by her mother.



Before evaluating the following data and conclusions, consideration should be given to an assumptions inherent in the program and data gathering procedures. The first assumption, upon which service to four and five-year-old; is based, is that the eligible child has deficits to such an extent that it would be more costly to ameliorate the deficits after the child enters first grade. This assumption is based on the cumulative deficit rationale which propose, that without intervention, the child who is deficit will become more deficit over time. As deficits increase, it is assumed that more time and more extensive specialist skills are necessary to provide services. If definits are identified early, service time can be shortened and less extensive skills can be employed. Rather than allow officits to cumulate and thus, further handicap a child it would appear most humane as well as more financially feasible to intervene as early as possible. Thus, the least costly means for derving the smalld would be provision of special services at the time of identification.

In Spring, 1975, first grade seasoners were asked to estimate second grade processor for each first grade shild. The estimates were categorized as "average of above" record grade placement and "low" second grade placement. The second assumption is associated with these placement estimates. When a first grade teacher predicts that a child will be placed in a "low" second grade, we are assuming that the child district achileve a set of minimum ojectives necessary for entry the an "average" second grade. Since there are no picin mobilities achieve of the first or second grades in the Colchester associate, we then prediction of second grade place-

ment has a some parties with an expansion of all nimers objectives.

Furthermore, the administration of the division of the divises during the first grade year and where the struct grade "success".

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success. In order to answer the question 'Is the parent a good predictor of his child's incompatible plans up data obtained for 54 first grade children encourse in the point Primary School in Colchester* was read.

In September of 1977, the most so entering first grade children were assessed using the LEEP outry level test. Children scoring 77 percent serment or below were considered eligible for special help. Table 2 shows the results of this assessment.

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Table 3 busing the percent of acturate parent predictors based on the 77 percent oritories for the EEEP test. Of the 46 parents who indicates that their child did not need special help 37 parents were accurate predictors using the 77 percent correct test score as a oritories for eligibility. Nine parents were inaccurate. Thus, 86 percent or the parents were accurate predictors.

Of the eight parents who indicated that their child needed special help, five parents were addicated predictors and three parents



^{*} The Colchester School Cistrict was pure as the Chittenden Central School District quality 1971-1977.

were inaccurate predictions. The cos passent of the parents were accurate prediction.

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TOTAL ORDUF	C I.	42	783 (42)

Table 1. A track of parent prediction using REEP test an criterion.

Of the 5% parent productions, 42 were accurate. Thur, 78 percent of the otal group of parents were assurate predictors.

Since the LHEF energ level test to only one possible indicator of a child's success in thest grade, parent predictions were also compared with the thild's estimated placement at the end of the first grade year.

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Parent problems were compared to teachers' estimates for second grack placement for each child.

Table - indicates that 50 percent of the parents who predicted their children did not need special help were accurate and 65 percent of parents who predicted their children did need special nelp were accurate. The percent of accurate parent predictors is 78 percent for the entire group.

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Table S: Comparison ad arms, it parent gradiction using test scores and find grade placement as criteria.



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For the grade of children whole garents indicate their children do not need special help. <u>Amont presidition accuracy is 80% using</u> either test success or second grade placement as the criteria. For the same group of children, <u>test</u> prediction accuracy using second grade placement as the criterian it comewnat higher (85%).

Those into prent prediction data, it appears that 20% of the children may be unligible for appearal convices, though the parents' reports do not indicate the possible need for such services. One strategy to "find" the 20% unilaren erigible but not do reported by parents would be reaching and five-pear-oads. However, the discrepancy between parent prediction accuracy and cost prediction accuracy loss not appear range crough to warrant the increase in personnel and tinancial analysis necessary to test all children.



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Service to all estates reported by parents as needing special nelp is inclusive wine parent production aroundly in higher than test prediction scourtsy. Astroomy only bits of these children may actually need upsolar devolet, such a procedure insures that service to provide to a maximum remain of alignite children. Thus, the possibility of the operation of cumulative facility for a child and the relating item act in costs for serving the child would be avoided. In addition, administrative of the possibility of the operation of the costs for an ending special convices singular reported by their resents as needing special convices singular relation to the surface of these services singular convices singular relation than on the surgaage/moder MEP entry rose feet. The data is singularly against a read on children (those we have seen a factor of a singular parents and those whose parent in these appears to have apply a remark that modifi-



cather of the parent questionales is necessary. To "find" the 20% children of given but her so each of py parents is of primary importance in any mobile. There exists a mildren are to be identified.

for this group of children, parent prediction accuracy may decrease for the group of children whose parents report special help is needed. This may be tolerated times: 1) if 100% of eligible children were reported by parents on meeding special services, then testing all children in the appulation would not be necessary and thus finerally savings could be account and 2) although there would be some children libertified as eligible who may not need services, no eligible while wells account as eligible who may not need services, no eligible while wells account account and could allow for identification of every alignate child in the least easily manner.

In summary, to find all eligible children, the parent questionmaire must be confided. To provide information as to how the questionn in should be charged, an analysis of test items must be completed. To at one that as a slightly unliders are provided service,
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Incidence of Ton inc. Children in the Chittenden Central School District

Incidence of onlinear crigible for special education among the 391 district million whose parents responded to the EEEP question-naire in January 1972 was continued tusing parental reports to indicate eligiblists. Parental reports indicated that 19% of the 391 children were migitum. In the separate towns and/or schools 17% of Point Primary School children, 180 of Union Memorial School children, 16% of Essex Surface during children, 180 of Essex School children and 35% of Westford children were alighble as indicated by parental reports. (see Table 10)

responded to the BIEP quantiformative, incidence was further estimated using test stored to below 78% on the REEP language/motor test administered during Deptember of the first grade year; the first grade teacher's recommendation for his second grade placement; and provision of special operation for his second grade placement; and provision of special operation for the first second indicated 26% were eligible, low soremed grade placement indicated 26% were eligible and provision of special education services indicated 24% were eligible. (See Table 11)

The estimates of eligibility reported herein are higher than those generally reported for proposoble millions.* This discrepancy may be decreased to several variables. The first has to do with the

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Appendix i

CASE STUDIES
1972-1973



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EEEP Colchester Rosemary Getsie B.J. Lates Martha Knight 1972-1973

BRAD

CHILD AND REFERRAL PROBLEM

Brad was a five year old boy who mother indicated that Brad might need special help in the lnaguage area before entering school in the fall. Brad did not participate in a nursery or kindergarten program.

On the EEEP entry level test administered in January, 1973, Brad obtained an overall score of 43% correct. Areas in which Brad scored zero included counting to ten, reciting the alphabet, prirting first name, placing pictures in sequential order, predicting a likely outcome, naming upper and lower case letters, saying initial consonant sounds, cutting out a circle, jumping, skipping, hopping on one foot, and naming shapes.

OBJECTIVE

Given 26 upper case alphabet letters and 26 lower case letters printed on flashcards Brad will identify each letter by saying its name

within 3 seconds for at least 90% of the letters.

MEASUREMENT PROCEDURES

A response was considered correct when Brad's first verbal response matched the symbol on the flashcard and was emitted



within three seconds. A response was considered incorrect if the verbal response did not match the symbol on the flashcard or was not the first response; or was not made within 3 seconds.

The mother marked a "+" on the data sheet next to the correct letter when Brad emitted a correct response and she marked a "0" on the data sheet for an incorrect response.

A letter name was considered learned when 3 correct responses were emitted consecutively within one session. The number of letters learned daily was graphed cumulatively.

TEACHING/LEARNING PROCEDURES

Baseline,:

A flashcard teaching/learning procedure was introduced.

Five letters were presented in order during each session three times each. When Brad emitted a correct response, his mother praised him by saying, "Good for you," or "That's right." When Brad emitted an incorrect response or no response his mother said, "The letter is __. Say __." When Brad repeated the letter name correctly, his mother said, "Good."

Contingency;:

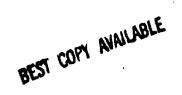
When Brad emitted correct responses, a piece of candy was given to him by his mother.

Baseline₂:

During this condition, Brad's mother carried out the procedures as described in Baseline,.

RESULTS

During 15 sessions of baseline procedures, 11 letters were learned.



Five letters were learned over 13 days during Contingency₁.

Three letters were learned over 14 days during Baseline₂.

RATE OF ACHIEVING MINIMUM OBJECTIVES

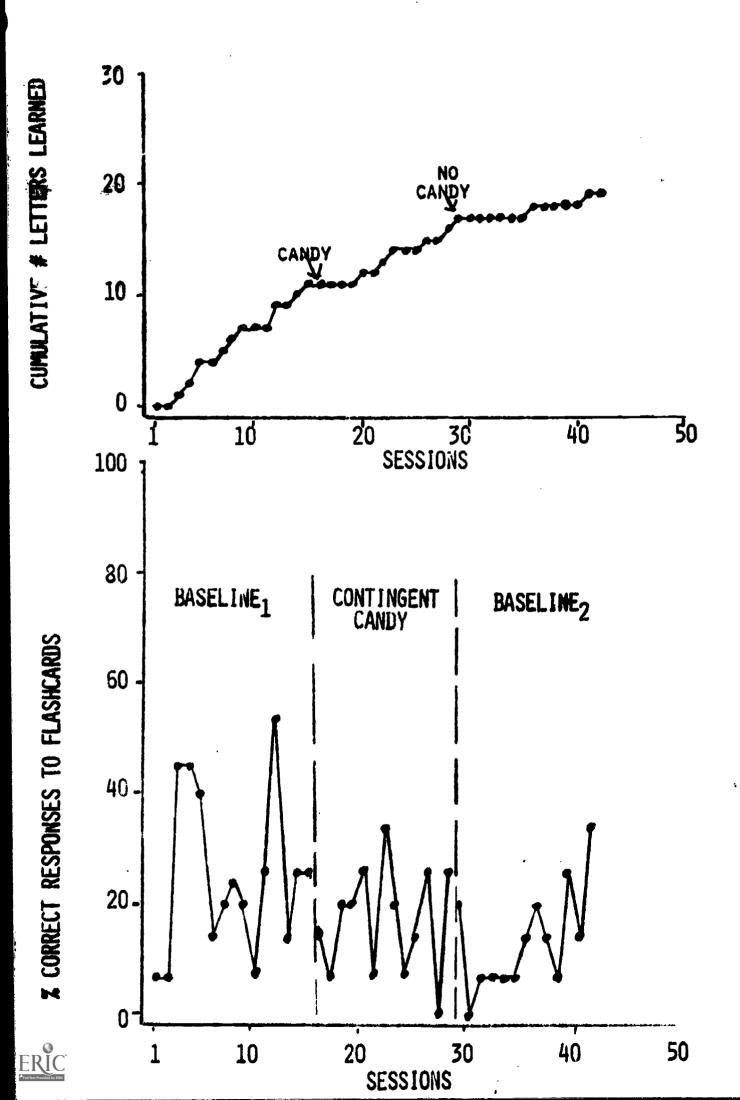
Table 1 shows the scores obtained for specific objectives over eight months.

	Jan.	Mar.	May	June	July	Aug
Alphabet Recognition-						
Upper Case	•00	.08	.23	.00	.64	.72
Alphabet Recognition-			·		-	
Lower Case	•00	.00	.09	•17	-42	. 39

Table 2 shows the overall scores for the EEEP entry level test over eight months.

Jan.	Mar.	May	June	July	Aug.	
43%	43%	64%	57%	57%	59%	





EEEP Colchester James Burns B.J. Lates Martha Knight 1972-1973

ERIC

CHILD AND REFERRAL PROBLEM

Eric; a five year old boy attended a day care center on an intermittent basis. His mother returned the EEEP referral form indicating that Eric needed special help in language and that some of his speech was difficult to understand.

The EEEP entry level test was administered in January, 1973. Eric scored an overall 42% correct. The most deficit areas, for which no points were scored, were writing his name, placing pictures in sequential order, speaking in complete sentences, predicting a logical outcome, saying initial consonate sounds, cutting out a circle, walking in a straight line, galloping, skipping, hopping, catching a ball and imitating rhythm patterns.

OBJECTIVE 1

'Given sets of objects of one through 20 Eric will tell how many objects are in each set

100% correctly and within 3 seconds.

MEASUREMENT PROCEDURES

Five unlearned sets of objects were presented three times during each session. A plus (+) was recorded when Eric named the total number of objects in the presented set within 3 seconds. The set was learned when three consecutive correct responses were recorded in one session. No response or an incorrect response was scored as an error(0).



On at least one occasion during each condition an outside observer simultaneously recorded correct and incorrect responses, the percentage of agreement between observers was calculated.

TEACHING/LEARNING PROCEDURES

Baseline

During baseline conditions Eric was not praised for correct responses. Incorrect responses were followed by instructions to count the objects with the parent and repeat the final correct response independently.

Contingency,

Eric was praised for each correct response. Incorrect responses were treated as in baseline.

Baseline,

Baseline, conditions were in effect.

Contingency

Contingency, conditions were in effect.

RESULTS

Baseline,

Three sets were learned during the four days, an average of .75 sets per day.

Contingency₁

Five sets were learned during the five days, an average of 1.00 sets per day.

Baseline₂

No sets were learned during the two days.



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Contingency,

Five sets were learned during the seven days, an average of .71 sets per day.

RELIABILITY OF MEASURES

Second observer measures agreed with parent measures with 100% agreement.

OBJECTIVE 2

Given upper and lower case letters and numerals printed on 3"x5" cards

Eric will recognize the letter or numeral presented within 3 seconds and on three consecutive occasions.

MEASUREMENT PROCEDURES

Six unlearned letters (three upper case and three lower case) were presented three times during each session. A correct response was defined as correctly recognizing the presented letter or numeral within 3 seconds. The letter or numeral was learned when three consecutive correct responses were recorded during a single session.

On at least one occasion during each condition an outside observer simultaneously recorded correct and incorrect responses. Percentages of agreement between observers were calculated.

TEACHING/LEARNING PROCEDURES

If Eric named the letter correctly within 3 seconds of presentation he was praised. If the letter was not named or named incorrectly the mother named the letter, Eric imitated her and Eric was praised for his correct imitative response.



4.

RESULTS

Thirteen upper case letters were learned druing nine days of teaching/learning procedures and nine lower case letters were learned during eight days of teaching/learning procedures.

Second observer measures agreed with parent measures with 100% agreement.

RATE OF ACHIEVING MINIMUM OBJECTIVES

Table 1 shows the scores obtained for specific objectives over eight months.

Jan_	March	May	Jun	<u>. Jul </u>	Aug		
.30	1.00	1.00					
.51	. 80	. 81.	.81	.60	.89		
.26	. 46	.68	.64	.55	.45		
	**************************************	Table	-				
	.30	.30 1.00 .51 .80	.30 1.00 1.00 .51 .80 .81	.30 1.00 1.0051 .80 .81 .81	.30 1.00 1.0051 .80 .81 .81 .60 .26 .46 .68 .64 .55	Jan March May Jun Jul Aug .30 1.00 1.00 .51 .80 .81 .81 .60 .89 .26 .46 .68 .64 .55 .45	.30 1.00 1.0051 .80 .81 .81 .60 .89 .26 .46 .68 .64 .55 .45

Table 2 shows the overall scores for the EEEP entry level test over eight months.

Jan	Mar	May	Jun	Jul	Aug
42%	47%	73%	67%	70%	74%

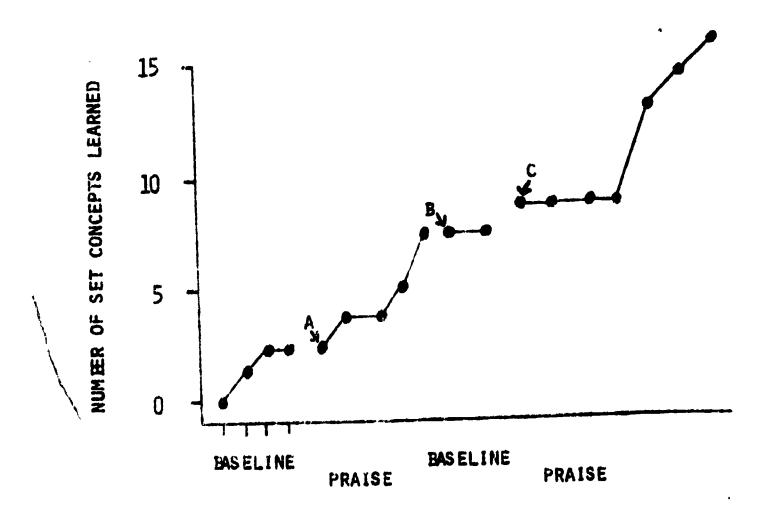


CUMULATIVE NUMER OF NUMER CONCEPTS LEARNED

A = CONTINGENT PRAISE INTRODUCED

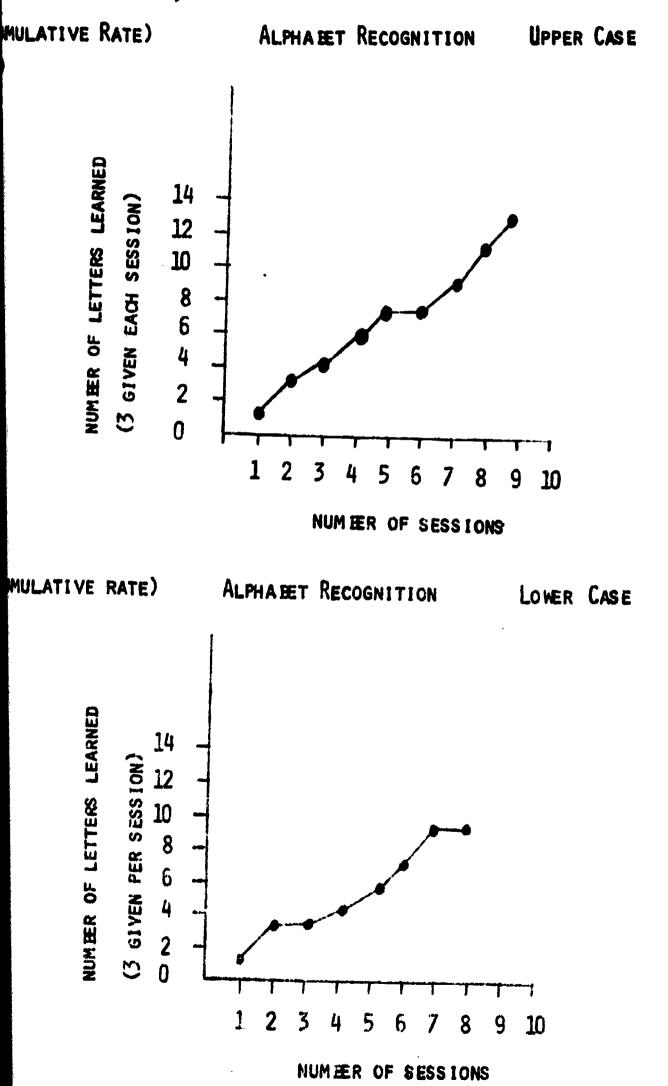
B = BASELINE, NO PRAISE

C = CONTINGENT PRAISE











EEEP Williston Martha Wade Martha Knight BJ Lates 1972-1973

JOHN

CHILD AND REFERRAL PROBLEM

John, a five year old boy, attended nursery school and was attending kindergarten at the time of referral.

His mother returned the EEEP referral form indicating that both she and John's teacher found him "very stubborn" and "hard to motivate".

The EEEP entry level test was administered in January, 1973. John scored an overall 65% correct. The most deficit areas, for which no points were scored, were placing pictures in sequential order, predicting a logical outcome, saying initial consonant sounds, galloping, skipping and catching a ball.

OBJECTIVES

Given five pictures representing words with different initial sounds and instructions to select the picture matching a specific initial sound (mother says "b")

John will select the appropriate picture and say the word it represents within 3 seconds and for 24 initial sounds.

Given five pictures representing words with different initial sounds and instructions to select the picture matching a specific initial letter (eg Mother holds up card with b printed on it.)

John will select the appropriate picture and say the word it represents within 3 seconds and for 24 initial sounds.



MEASUREMENT PROCEDURES

A correct response was defined as the selection of a picture which matched the auditory (e.g., "b" spoken) or visual cue (e.g., "b" printed) within three seconds. A response was incorrect when no picture was selected or the picture selected did not match the auditory or visual cue within three seconds.

The sound was considered learned when three consecutive correct responses were emitted for the picture or letter card during a single session.

On at least one occasion during each condition an outside observer simultaneously recorded correct and incorrect responses. Percent of agreement between observers was calculated.

TEACHING/LEARNING PROCEDURES

Baseline,

During baseline conditions, John was not praised when the correct picture was selected.

Contingency,

During contingency Tohn was praised following every correct matching response (FR1).

Baseline,

As in baseline, John was not praised.

Contingency,

During this condition, John was praised following every correct matheing response (FR1) and beginning on the fourth day of this condition was praised only for every two responses (FR2).



j,

RESULTS

Baseline

John learned no sounds during the three baseline sessions.

Contingency

Eight sounds were learned during the five sessions, 1.6 sounds per session.

Baseline,

Four sounds were learned during the five sessions, .8 sounds per session.

Contingency,

Twelve sounds were learned during the five sessions, 2.4 sounds per session.

Reliability of Measures

Second observer measures during each condition agreed with parent measures for every response, 100% agreement.

DISCUSSION

Although John learned to select the printed letter which matched the spoken sound during daily teaching learning sessions, monthly probes indicated that John could not consistently say the beginning sounds of words presented in the test situation. It is hoped that this generality will be effected this summer.

John's mother did succeed in thinning the schedule of reinforcement for an increasing rate of responses during contingency2.



RATE OF ACHIEVING MINIMUM OBJECTIVES

Table 1 shows the scores obtained for specific objectives over eight months.

	Jan.	March	May	June	July	August
Consonant Sounds	.00	.22	.00	.00	.22	.11

Table 1

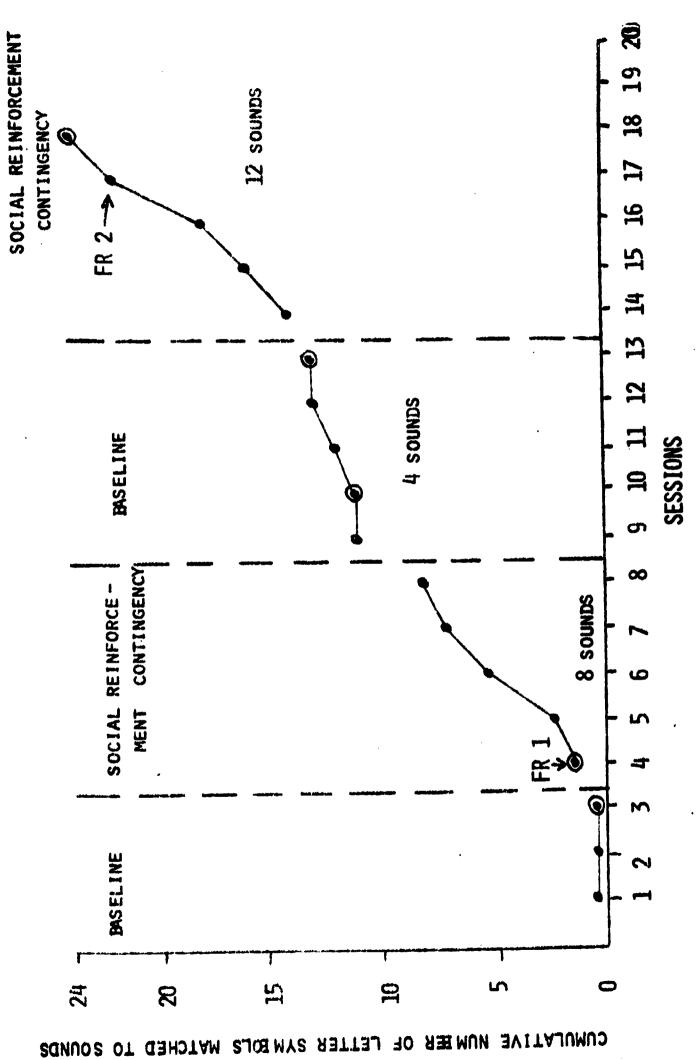
Table 2 shows the overall scores for the EEEP entry level test over eight months.

Jan.	March	April	May	June	July	Aug.
65%	67%		70%	648	86 %	82%

Table 2



ERIC



MATCHING THE LETTER SYMBOL MITH A BEGINNING SOUND

EEEP Colchester
Mary Carter, Nancy Friedman
B.J. Lates, Martha Knight
1972-1973

JOSEPH

CHILD AND REFERRAL PROBLEM

Joseph was a six year old boy whose mother indicated he might need special help before entering first grade in the motor skills area. The mother was particularly concerned because Joseph had lost a portion of his left foot, the bottom and arch, in a lawn mower accident at the age of four. Joseph did not participate in a nursery school or kindergarten.

Information obtained from the EEEP entry level test given in January, 1973 indicated that Joseph scored "0" for specific skills including writing name, placing pictures in sequential order, predicting a logical event, recognizing upper and lower case letters, naming consonant sounds, cutting out a circle, walking, galloping, skipping, and naming shapes.

OBJECTIVE 1

Given a pencil, a piece of paper with a horizontal line on it, a model of the child's name and a cue ("Trace your name with this pencil.")

Joseph will trace his first name

such that it is parallel to or on the horizontal line, and conforms to the letter model.

MEASUREMENT PROCEDURES

A letter was counted as correct when it did not go outside of the form and all lines and curves were complete. The mother marked the number of letters completed and the number correct on



the data sheet. A percent correct was calculated using the formula number correct

| X 100. |

TEACHING/LEARNING PROCEDURES

At the beginning of each session Joseph was provided a sheet of paper with his name printed 18 times, three times on each of six lines. The mother marked the date on the sheet and gave Joseph five minutes to trace his name. She then instructed Joseph to begin the first letter on the left. Joseph was instructed to trace each letter using the correct stroking. When Joseph did not use proper stroking, his pencil marks went outside of the lines or the lines were not connected, Joseph's mother said, "Please erase and try again." When Joseph traced the letter correctly on the first try he was praised. At the end of five minutes, the mother drew a line after the last letter was completed. Joseph began writing the next letter on the next

Contingency 1:

When Joseph traced a letter correctly his mother marked a "+" over the correct letter.

Contingency 2:

When Joseph traced a letter correctly his mother placed a colored star over the correct letter.

Contingency L:

The same procedures were used as described above in Contingency 1.



Contingency 3:

When Joseph traced a letter correctly his mother marked a "+" above the letter and placed a colored star above the letter.

RESULTS

During 11 days of baseline procedures the average percent correct of letters traced was 19% with a range of 0% to 60%.

During six days of Contingency 1 procedures the average percent correct was 52% with a range from 20% correct to 85% correct.

During Contingency 2 procedures, the average percent correct was 79%, with a range from 60% correct to 100% correct. During the return to Contingency 1 procedures of eight days, the average percent correct was 58% with a range of 8% to 83%. During Contingency 3 procedures the average percent correct was 69% with a range from 41% to 100% over 11 days.

OBJECTIVE 2

Given the upper case letters of the alphabet

Joseph will name each letter

within three seconds correctly.

MEASUREMENT PROCEDURES

When Joseph emitted a correct response his mother recorded a "+" on the data sheet. When Joseph emitted an incorrect response, she recorded a "0". A letter was considered learned when there were three consecutive correct responses in one session. The number of letters learned daily was graphed.

TEACHING/LEARNING PROCEDURES

Five flashcards, each with a letter of the alphabet were presented three times in each session. Joseph's mother said,



"What letter is this?" When Joseph answered correctly he was praised. When Joseph emitted an incorrect response, his mother said, "This letter is __. Say __." When Joseph imitated his mother, his mother praised him. When a letter was learned the flashcard was removed from the pack and a new card was added for the next day.

RESULTS

Twenty-six upper case letters were learned during 25 sessions.

RATE OF ACHIEVING MINIMUM OBJECTIVES

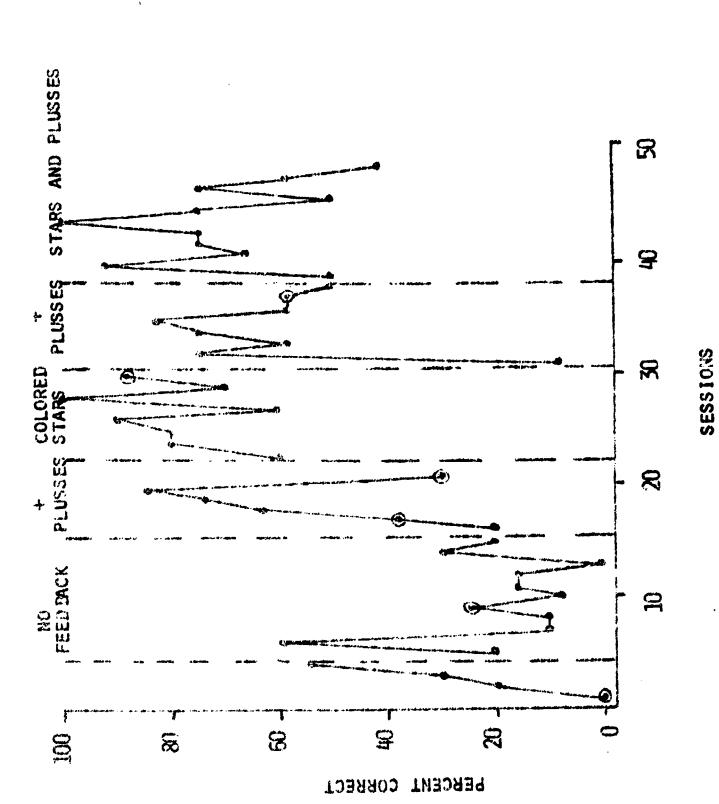
Table 1 shows the scores for individual objectives on probe tests over eight months.

	Jan.	March	Apr.	May	Jul.	Aug
Writing Name	.00	.00	. 1.00	1.00		1.00
Alphabet Recognition Upper Case	.00	.00	.31	.42	1.00	.51

Table 2 shows the overall scores for EEEP entry level tests administered over eight months.

Jan.	Mar.	April	May '	Jul.y	Aug.
47%	45%	53%	62%	69%	68%

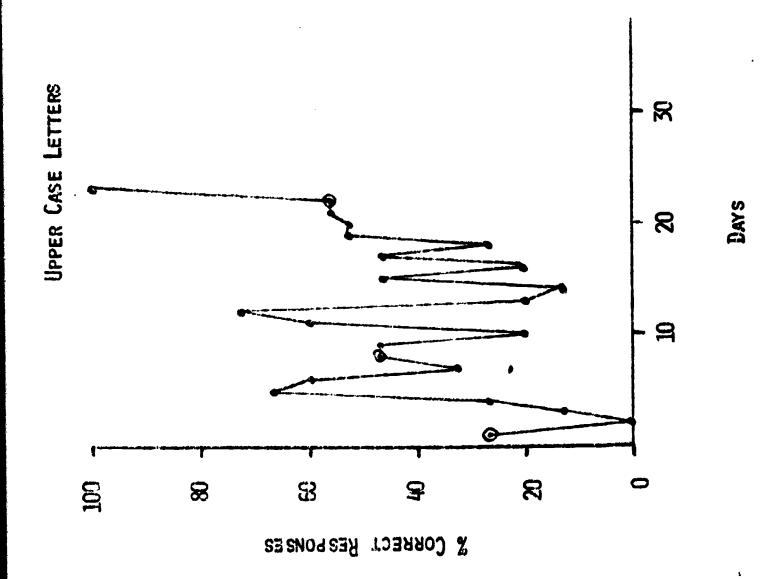






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ERIC Full Text Provided by ERIC







EEEP Colchester
Nancy Friedman, Mary Carto
B.J. Lates, Martha Knight
1972-1973

KENNETH

CHILD AND REFERRAL PROBLEM

ery school or kindergarten experience. Kenneth's mother received the initial EEEP referral form and returned it indicating Kenneth needed help in none of the four areas. When Kenneth's mother met two EEEP staff members in her sister's home she asked if she might work with Kenneth. She said that she had not understood the EEEP survey form. Kenneth brained an overall score of 35% correct on the EEEP entry level test given in March, 1973. The areas in which Kenneth scored 0% included: counting to ten, reciting the alphabet, repeating a seven word sentence, printing his first name, placing pictures in sequential order, speaking in a complete sentence, predicting a logical outcome, recognizing upper and lower case letters, recognizing numerals, naming consonant sounds, jumping, galloping, skipping, hopping on one foot, walking on tape.

OBJECTIVE I

Given the upper case letters of the alphabet

Kenneth will name each letter

within three sec- onds correctly.

MEASUREMENT PROCEDURES

When Kenneth emitted a correct response to a flashcard his mother marked a plus on the data sheet. When he emitted an in-



correct response she marked a 0. When there were three correct responses consecutively during one session, the letter was considered learned.

TEACHING/LEARNING PROCEDURES

Five flashcards, each with a letter of the alphabet, were presented three times each during a session. Kenneth's mother asked, "What letter is this?" When Kenneth emitted the correct response, his mother praised him. When Kenneth emitted an incorrect response or did not respond within three seconds, his mother said, "This letter is ___. Say __." When Kenneth imitated his mother, he was praised. When a letter was learned, it was removed from the pack of flashcards. A new flashcard was added to the pack for the next session.

RESULTS

After 15 sessions, the 26 upper case letters of the alphabet were learned.

OBJECTIVE 2

Given the numerals 1 through 10

Kenneth will name each numeral

within 3 seconds correctly.

MEASUREMENT PROCEDURES

When Kenneth made a correct response to a flashcard his mother marked a plus on the data sheet. When Kenneth emitted an incorrect response she marked a 0. Three consecutive plusses during one session was the criteria for a learned numeral.



TEACHING/LEARNING PROCEDURES

Flashcards with the numerals were presented as in the above section. The numerals, however, were presented in numerical sequence. Later the flashcards were presented in non-systematic order.

RESULTS

After five sessions; numerals one through ten were learned.

RATE OF ACHIEVING MINIMUM CBJECTIVES

Table 1 shows the scores for individual objectives on probe tests over eight months.

	Mar.	Apr.	May	June	July	Aug.
Alphabet Recognition Upper Case	.00	.51	1.00	1.00		1.00
Numeral Recognition 1 - 10	.00	.70	.00	.90	.90	1.00

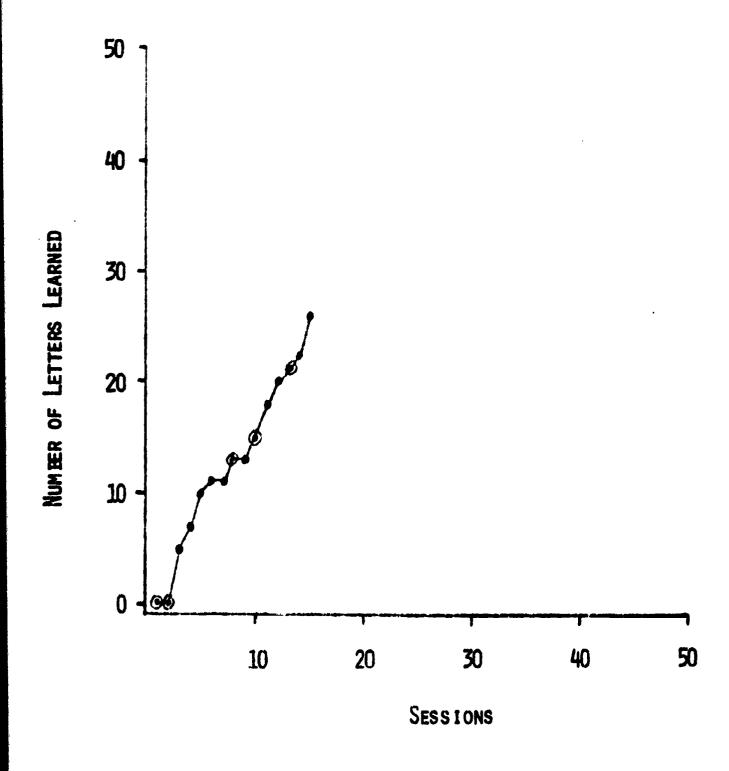
Table 2 shows the overall scores for EEEP entry level tests administered over eight months.

Mar.	Apr.	May	June	July	Aug.
35%	43%	59%	57%	69%	72%



Kenneth

CUMULATIVE NUMBER OF UPPER CASE LETTERS LEARNED





EEEP Colchester Judy Dunbar B.J. Lates Martha Knight 1972-1973

KEVIN

CHILD AND REFERRAL PROBLEM

Kevin was a five year old boy who had attended nursery school and was attending a private kindergartem when his mother returned the EEEP survey form indicating that Kevin might need special help in the language area. Information gained from the parent questionnaire indicated parental concern about Kevin's speech. Kevin was evaluated twice at the Medical Center.

The EFEP entry level test administered in January, 1973, yielded an overall score of 51% correct. Activities for whic' Kevin received no points included reciting the alphabet, printing first name, placing pictures in sequential order, predicting a logical outcome, recognizing initial consonant sounds, cutting out a circle, running, galloping, skipping, walking on tape, and naming colors.

OBJECTIVES

Given any object of any of the 8 basic colors	the student will say the color	within 3 seconds and with 100% accuracy.
Given any of 10 flashcards each with a numeral from 1-10	the student will say the number	within 3 seconds and with 100% accuracy.
Given 26 flashcards each with a lower case letter	the student will name the letter	within 3 seconds and with 100% accuracy.



Given 26 flashcards each with an upper case letter

the student will name the letter

within 3 seconds and with 100% accuracy.

MEASUREMENT PROCEDURES

A correct response was defined as the first color name, number, or letter name matching the flashcard symbol emitted within 3 seconds. For each correct response the mother marked a "+" on the data sheet next to the appropriate symbol. For each incorrect response the mother marked a "0".

A color, number, or letter was considered learned after three consecutive correct responses within one session. The frequency of learned colors, numbers, and letters were graphed separately each day.

TEACHING/LEARNING PROCEDURES

Baseline:

Each day the mother began the teaching/learning session by presenting four color cubes one at a time to Kevin. She said,
"I am going to show you some blocks. When I show you one, please tell me the correct color of the block." When Kevin emitted a correct response, the mother marked a "+" on the data sheet, but made no verbal responses. When Kevin emitted an incorrect response, the mother said, "This color is _____. Say ____."

This same procedure was used for flashcards which were marked with numerals and upper and lower case letters. Five cards were presented for lower case letters, another five for upper case letters and another five for numerals. When any color, letter, or numeral was learned, the cube or flashcard was removed from



the stack and a new cube or flashcard was added. Each cube or flashcard was presented three times each session in the same order.

Contingency₁:

When Kevin emitted a correct response, his mother praised him. She said, "Good for you" or "That's right."

Contingency :

When Kevin emitted a correct response, an M & M was placed in a cup in front of Kevin. At the end of the session, Kevin counted the M & M's with his mother and was free to eat them.

RESULTS

Colors:

During 6 days of baseline, Kevin learned two colors.

During 14 days of contingency, procedures Kevin learned six colors.

Lower Case Letters:

During 13 days of baseline procedures, Kevin learned three letters. During 12 days of contingency procedures, Kevin learned three letters. During 11 days of contingency procedures, Kevin learned two letters.

Upper Case Letters:

During 24 days of baseline procedures, Kevin learned eight letters. During 12 days of contingency procedures, Kevin learned three letters.

Numerals:

During 25 days of baseline procedures, Kevin learned three numerals. During 12 days of contingency, procedures, Kevin



learned three numerals.

DISCUSSION

Apparently neither contingent parental praise nor M & M's were effective variables for increasing the rate of learning numerals, or letter names.

RATE OF ACHIEVING MINIMUM OBJECTIVES

Table 1 shows the scores obtained for specific objectives over eight months.

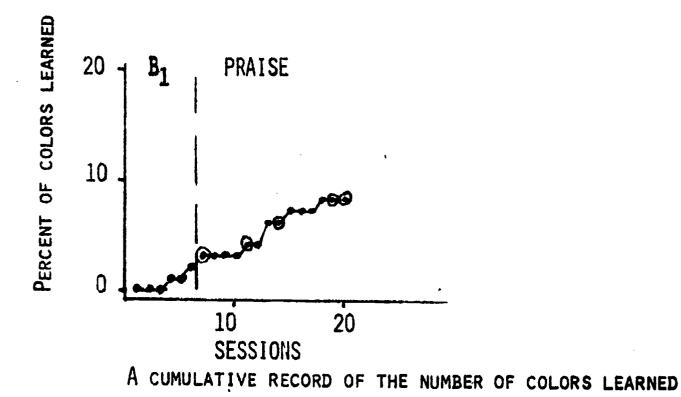
	Jan.	Mar.	April	June	July	Aug.
Color Recognition	.00		.75	.88	1.00	1.00
Numeral Recognition	.20	. 40	.30	.60	.60	.60
Alphabet Recognition Lower Case	.1.5	200	.09	.13	.13	.13
Alphabet Recognition Upper Case	. 1.9	Ep 10	.25	.26	.26	.17

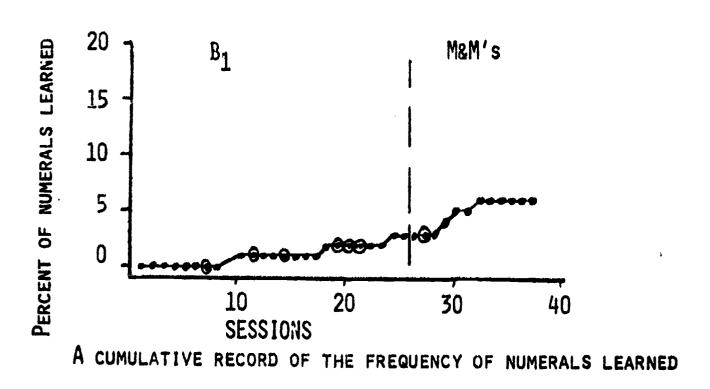
Table 2 shows the overall scores for the EEEP entry level test over eight months.

	Jan	Mar	April	June	July	Aug.
51% 67% 60% 67% 74% 6	51%	67%	60%	67%	748	68%

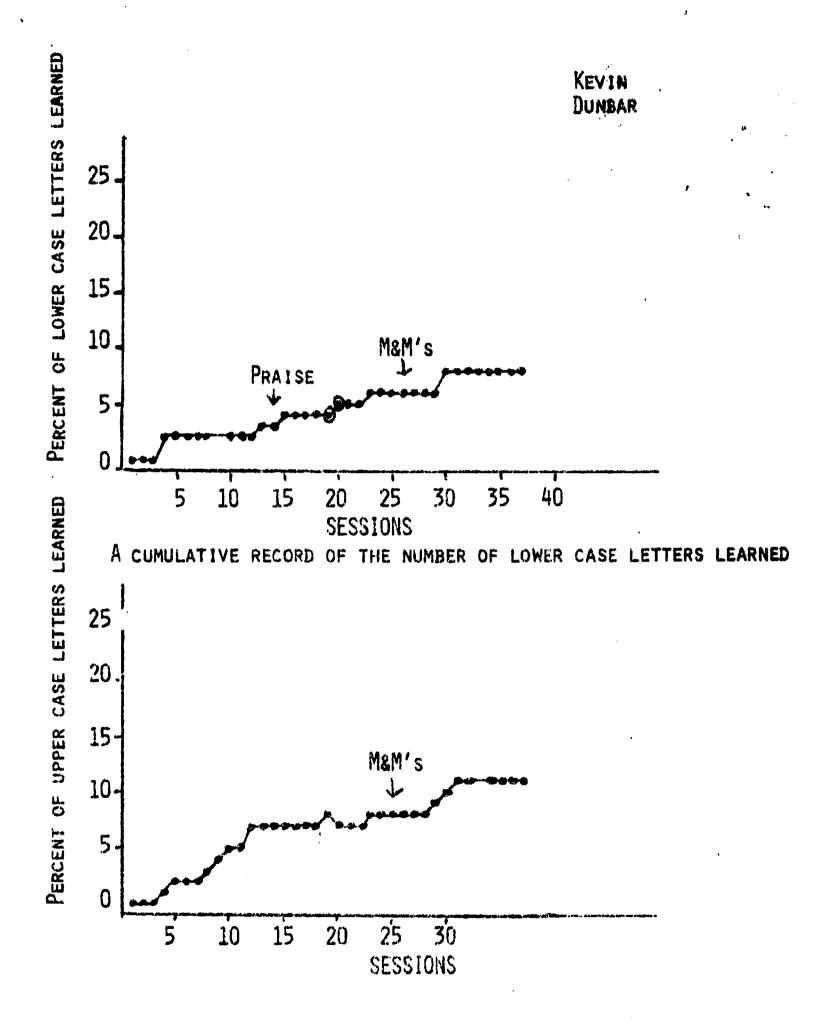












A CUMULATIVE RECORD OF THE NUMBER OF UPPER CASE LETTERS LEARNED

EEEP Colchester Cathy Homan B.J. Lates Martha Knight 1972-1973

KIM

CHILD AND REFERRAL PROBLEM

Kim was a five year old girl whose mother indicated she might need special help before entering first grade in the language area. Kim's mother stated that Kim was bashful with strangers and did not attend nursery school or kindergarten. The EEEP entry level test given in January yielded an overall score of 31% correct. Areas in which she scored 0% included counting to ten, reciting the alphabet, repeating a seven word sentence, printing her first name, placing pictures in sequential order, predicting a logical outcome, recognizing upper and lower case letters, naming consonant sounds, cutting out a circle, holding scissors, jumping, galloping, skipping, hopping on one foot, walking on tape, and naming shapes.

OBJECTIVE 1

Given the upper case the child will say with 100% alphabet letters on the letters accuracy. flashcards

MEASUREMENT PROCEDURES

The mother marked a "+" on the data sheet when Kim emitted a correct response to the flashcard. She marked a "0" on the dila sheet when Kim emitted an incorrect response. A letter was considered learned when there were three consecutive "+'s" during one session. The number of letters learned daily were graphed.



TEACHING/LEARNING PROCEDURES

Five flashcards were presented to Kim during each session.

Each card was presented three times. When Kim emitted a correct response her mother praised her. When Kim emitted an incorrect response her mother said, "The letter is _. Say _."

Condition A. During this condition, Kim earned a star for each letter learned.

Condition B. During this condition, Kim earned a penny and a star for each letter learned.

Condition A_2 . During this condition the mother returned to the procedures described in Condition A.

Condition C. During this condition, Kim earned a star for each letter learned and she was allowed to record the number of letters learned during each session.

RESULTS

During the two days of Condition A no letters were learned.

During six sessions for Condition B, one letter was learned.

During five sessions for Condition A2, no letters were learned.

During Condition C, 16 letters were learned in 24 days. Over

37 sessions, 17 letters were learned.

OBJECTIVE 2

Given mother's directions for jumping, galloping, hopping on one foot, skipping, and walking on tape the child will engage in these behaviors for ten feet and meeting all criteria set in EEEP test.



MEASUREMENT PROCEDURES

The mother marked each activity as "+" or "0" according to the criteria listed in the EEEP entry level test.

THE PARTY OF THE PARTY OF

TEACHING/LEARNING PROCEDURES

Each motor skill was modeled by the mother for the child during the first session. The child was asked to imitate each behavior. In subsequent sessions the mother simply said, "Kim, jump down the hall. Make sure both feet are together." "Kim, now gallop. Remember, put one foot out first and bring the other up." "Kim, skip down the hall. Remember, it is like hopping on the same foot you step with." "Now hop down the hall on one foot." "Now Kim, walk in a straight line putting one foot in front of the other so that your heel touches your toes each time."

RESULTS

During three entry level measures on all motor behaviors

Kim obtained an average of 24% correct with a range of 14% correct

to 29% correct. On four weekly probe tests given concurrent

with the mother's daily teaching procedures, Kim obtained 100%

correct for each of the four probes in all motor areas.

OBJECTIVE 3

Given a paper with a circle drawn on it and a pair of scissors

the child will cut the circle out so that it fits the criteria pattern for the EEEP test.



MEASUREMENT PROCEDURES

The EEEP staff member marked a "+" for each circle which met EEEP entry level test criteria. A "0" was marked for each circle not meeting those specified criteria.

TEACHING/LEARNING PROCEDURES

During each session, Kim's mother said, "Kim, cut out the circle. Cut it out on the line and do it slowly and carefully."

RESULTS

During three entry level tests, Kim obtained a score of 0 for cutting out the circle each time. After the daily teaching/learning procedures, Kim obtained scores of 100% correct during three weekly test probes.

OBJECTIVES 4 and 5

Given a child, a tutor and the question, "Where is your ?" concerning parts of the body

the child will point with 100% to the named part of accuracy. the body

Given a child, a tutor and the question, "What is this?" with the tutor pointing to a part of his body the child will orally with 100% name the part of the accuracy. body

MEASUREMENT PROCEDURES

During each session the mother marked a "+" on the data sheet for each correct response. A "0" was marked on the data sheet for each incorrect response.



TEACHING/LEARNING PROCEDURES

During each session Kim's mother pointed to a part of her body and said, "Kim, what is this?" The parts of the body pointed to are listed in the entry level test. Later she asked, "Kim, point to your _____." These body parts are listed in the EEEP Entry Level Test.

RESULTS

During two entry level tests on pointing to and naming body parts, Kim averaged 72% correct. On two probes given weekly after the mother began teaching/learning procedures, Kim averaged 91% correct.

OBJECTIVE 6

Given models in the shapes of a circle, triangle, square, and rectangle the child will orally with 100% name the shapes accuracy.

MEASUREMENT PROCEDURES

During each session the mother marked a "+" on the data sheet for each correct response. A "0" was marked on the data sheet for each incorrect response.

TEACHING/LEARNING PROCEDURES

During each session, Kim's mother held up one of the four paper shapes and asked, "What is this called?" When Kim answered correctly, she would praise her. When Kim emitted an incorrect response, her mother told her, "The answer is _____." and then asked the name of the next shape.



RESULTS

During two entry level tests on naming shapes, Kim scored 0% correct on each test. On weekly probe tests, after teaching/learning procedures were introduced. Kim scored 25% correct and 0% correct.

RATE OF ACHIEVING MINIMUM OBJECTIVES

Table 1 shows the scores obtained for specific objectives over eight months.

	Jan.	March	May	June	· August
habet recognition- er case	.00	.14	.64	.67	.91
ping	.00	.00	1.00	.00	1.00
loping	.00	.00	1.00	1.00	1.00
ping on one foot	.00	.00	1.00	00،	1.00
pping	.00	.00	1.00	.00	1.00
king on tape	.00	.00	1.00	1.00	1.00
ting out a circle	.00	.00	1.00	1.00	1.00
es body parts	.58	.86	1.00	1.00	1.00
ognizes shapes	.00	.00	.00	.33	.67

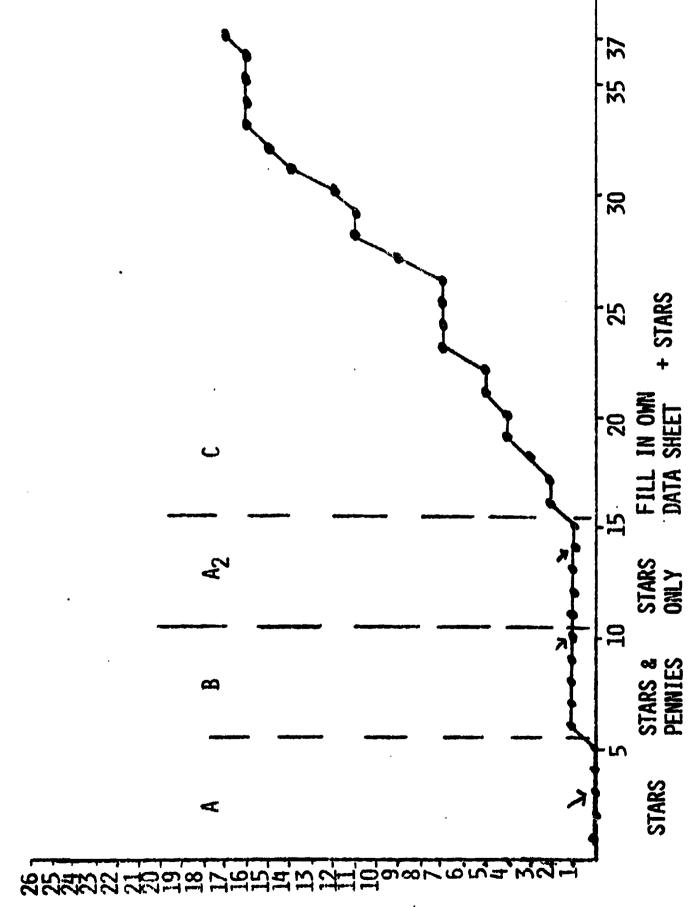
Table 2 shows the overall scores for the EEEP entry level test over eight months.

Jan.	Mar.	May	June	Aug.
31%	348	66%	1118	80%



CUMULATIVE GRAPH OF UPPER CASE LETTERS LEARNED

Z LETTERS LEARNED



EEEP Williston Robert Bradley B.J. Lates - Martha Knight 1972-1973

DALE

CHILD AND REFERRAL PROBLEM

Dale was a five year old girl whose mother indicated Dale might need special help before entering first grade in the language area. Dale did not attend nursery school or kindergarten.

Dale obtained an overall score of 44% correct on the EEEP entry level test administered in January. Activities for which Dale received no points included counting to ten, reciting the alphabet, printing her first name, arranging pictures in sequencial order, speaking a complete sentence, predicting a logical outcome, naming upper and lower case letters, naming consonant sounds, galloping, skipping, walking on tape, and naming shapes.

OBJECTIVE 1

Given verbal instructions to count to ten the child will count from one to ten orally in numerical order within 20 seconds without error, every time.

MASUREMENT PROCEDURES

When Dale emitted a correct response to a flashcard her mother marked a "+" on the data sheet. When Dale emitted an incorrect response, her mother marked a "0". A number was considered learned when Dale emitted three consecutive correct responses in each of two consecutive sessions.



TEACHING/LEARNING PROCEDURES

Baseline:

3 x 5 flashcards with the numerals 1 through 10 were placed in numerical order in front of Dale. Four numerals at a time were presented. Each card was presented in numerical sequence three times each session. The mother made no comment following correct responses.

When Dale emitted an incorrect response, her mother said the correct response and Dale imitated it. A learned numeral was removed from the set of four cards only when it was the lowest numeral in the set. Thus, when a numeral was learned out of sequence, the card remained in the set of cards and the next numeral to be learned was added.

Contingency 1:

The procedures were the same as described in baseline except that the mother praised correct responses with such phrases as, "Excellent", "very good", or "You've got it!"

RESULTS

During five days of baseline, the number "1" was learned.

During 18 days of contingency 1, counting from two to ten was learned.

OBJECTIVE 2

Given any set of objects not exceeding ten the child will tell how many objects are in the set within 20 seconds without error every time.



MEASUREMENT PROCEDURES

When Dale emitted a correct response to a set of objects, her mother marked a "+" on the data sheet. Incorrect responses were indicated with a "0" on the data sheet.

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TEACHING/LEARNING PROCEDURES

The mother asked Dale to count sets of objects such as blocks, books, fingers, ears and nose. The number of objects in a set did not exceed the highest learned numeral from the counting procedure. When Dale emitted correct responses her mother praised her.

RESULTS

In 23 sessions, Dale could count any set from one to ten.

OBJECTIVE 3

Given Arabic numbers the child will name on flashcards from the number 1-10 presented

within three seconds without error.

MEASUREMENT PROCEDURES

When Dale emitted a correct response to a flashcard, her mother marked a "+" on the data sheet. An incorrect response was indicated with a "0" on the data sheet. A numeral was considered learned where there were three correct responses on two consecutive days.

TEACHING/LEARNING PROCEDURES

Random Order:

Four flashcards of numerals in random order were presented



three times each to Dale in the manner described by Burdett-Fox (1972). However, the mother did not provide praise for correct responses.

Numerical Order and Praise:

Procedures were the same as above except numerals were presented in sequential order and the mother praised Dale for correct responses. During this condition the mother continued to praise correct responses. However, the numerals were presented in random order.

RESULTS

During six days of random order flashcard presentation, the average percent correct was 38.

During 17 days of numerical order flashcard presentation and praise, her average percent correct was 79. During ten days of random order flashcard presentation and praise, the average percent correct was 93.

OBJECTIVE 4

Given verbal directions to say the the alphabet in order alphabet

with no more than a three second delay between letters without error every time.

MEASUREMENT AND TEACHING/LEARNING PROCEDURES

Phase I:

During the first sessions, Dale and her mother sang the alphabet song together and then Dale was asked to sing it alone.



The mother noted the last letter sung correctly on the data sheet. Praise was given for correct responses.

Phase 2:

Later Dale was asked to sing the alphabet song by herself with mother humming. The mother marked the last letter sung correctly on the data sheet. Then Dale and her mother sang the song together. When Dale made an error, the mother sang very slowly. Dale imitated her mother. The mother praised Dale for correct responses and imitations.

RESULTS

Dale could recite the alphabet at the end of 20 sessions.

OBJECTIVE 5

Given printed flashcard alphabet letters, upper and lower case

the child will orally name the letters

within three seconds with 90-100% accuracy.

MEASUREMENT PROCEDURES

When Dale emitted a correct response to a flashcard, her mother marked a "+" on the data sheet. An incorrect response was indicated with a "0".

TEACHING/LEARNING PROCEDURES

The 26 alphabet letters were divided in half in a non-systematic fashion. Each group of 13 letters was increased to 26 by using both the upper and lower case letter symbols. Each pack of 26 letters was again arranged in a non-systematic fashion. The



first group of 26 letters was used for session 1, with the second group of 26 letters being used in session 2.

Baseline:

During each session, the mother presented five cards using the Burdett-Fox flashcard procedure. However, no praise was given the child for correct responses.

Contingent Praise:

The mother continued the procedures described in baseline, but praised Dale for correct responses using such phrases as "Good", "Wonderful", or "You've got it!".

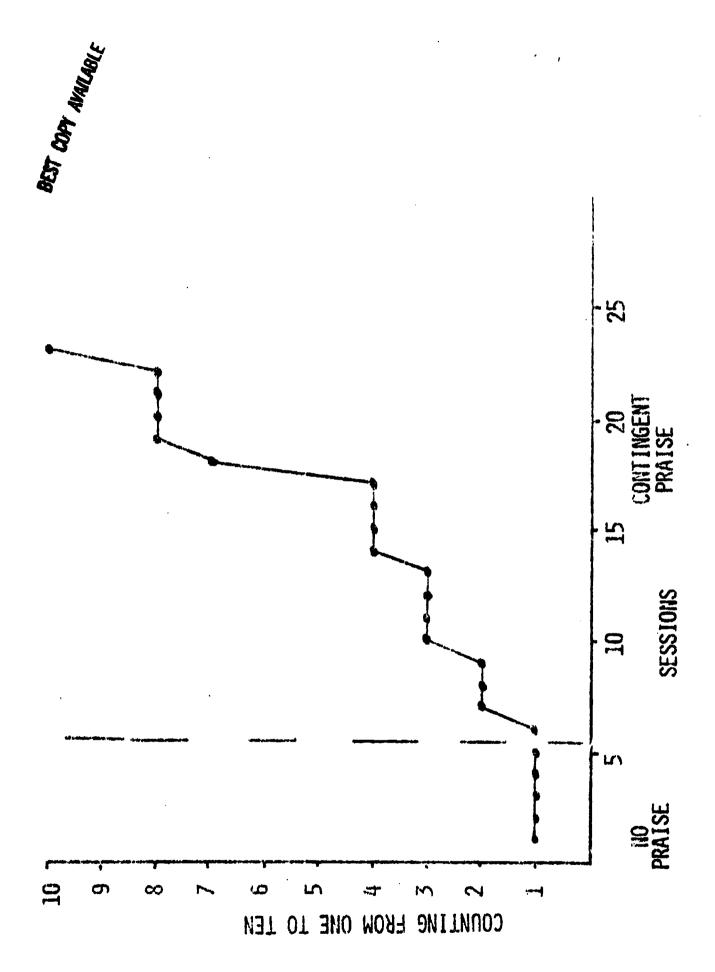
RESULTS

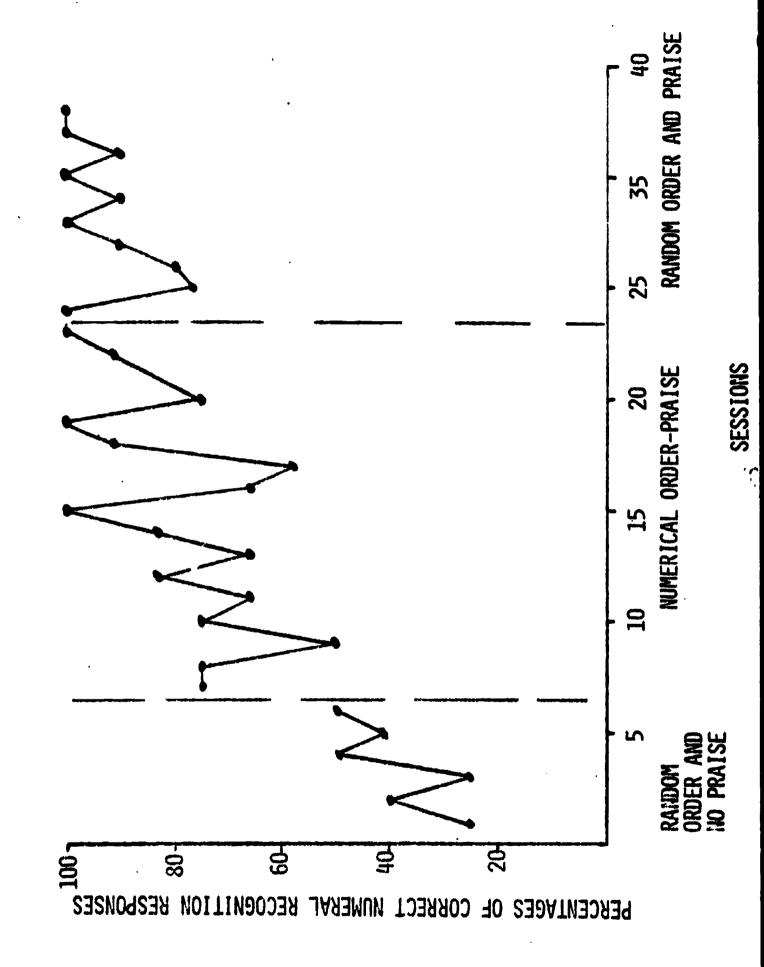
During 12 days of baseline in session 1, Dale emitted two correct responses. During 12 days of contingent praise, Dale emitted 24 correct responses and learned one letter.

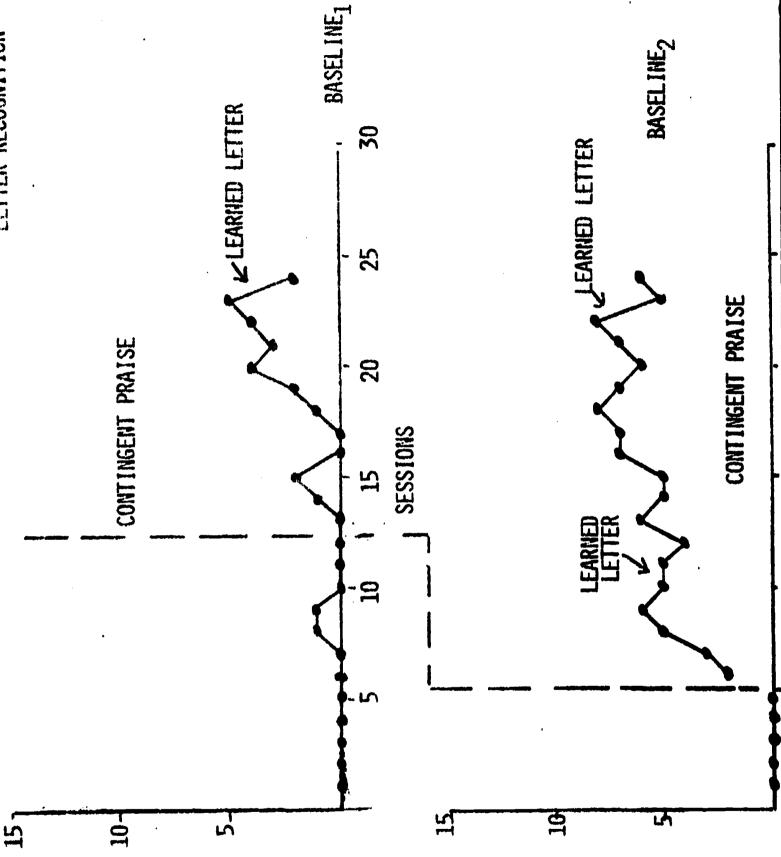
During five days of baseline in session 2, Dale emitted no correct responses. During 19 days of contingent praise, Dale emitted 107 correct responses and learned two letters.



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RATE OF ACHIEVING MINIMUM OBJECTIVES

Table 1 shows the scores obtained for each of the behaviors discussed in this study over eight months.

	Jan.	March	May	June	July	August
Countings from 1-10	.00	1.00	1.00	-	-	1.00
Counting sets of objects	.30	.70	.90	.40	.60	.40
Numeral recog- nition (1-10)	.20	.20	.30	.00	.00	.20
Reciting the alphabet	.00	.00	.81	.73	.81	.81
Alphabet recognition upper	.00	.00	.21	. 04	.00	. 04
Alphabet recognition lower	.00	.00	.17	,09	. 04	.09

Table 2 shows the overall scores for the EEEP entry level test over eight months.

Jan.	March	May	June	July	August
448	52%	73%	51%	64%	66%



CEEP Williston Carmen Marcy Martha Knight B.J. Lates 1972-1973

PAUL

CHILD AND REFERRAL PROBLEM

Paul was a six year old child in Williston, Vermont. His parents referred him because of suspected deficits in language and social skills. Paul underwent surgery for a lazy eye condition and continued to wear a patch over one eye at the time of referral. On the initial home visit, the mother told the EEEP staff member that she was considering not sending Paul to school until September, 1974. She referred to him as her "slow" child.

The Essential Early Education Program entry level test was administered on January 22, 1973. Paul scored an average of 49% correct on all items tested.

Problem areas included counting, reciting alphabet and recognizing letters and numerals.

OBJECTIVES

Given 26 upper and 26 lower case alphabet letters printed on flash cards Paul will identify each letter by say-ing its name

within three seconds with 90-100% accuracy.

Given 20 consonants and 15 consonant blends printed on flashcards

Paul will orally state the phoneme sound that corresponds to each consonant, vowel, or blend

within three secands, with 90-100% accuracy.



Given a spoken word and a cue	Paul will name the initial consonant or consonant blend of that word	within three sec- onds, at least 30 of 33 words.
Given printed numbers one through ten	Paul will orally state how many ob- jects are in each set	within five seconds per set, with 100% accuracy.
Given a cue	Paul will orally state the names of the four basic shapes (circle, square, triangle, rectangle)	within five seconds with 100% accuracy.
Given a three and four beat rhythm pattern	Paul will imitate each pattern	within five seconds, with 100% accuracy.

MEASUREMENT PROCEDURES

For each correct response, the mother marked a "+" on the data sheet. For each incorrect response, the mother recorded a "0". An item was considered learned when there were three consecutive "+'s" in one session.

The parent and EEEP staff member graphed the cumulative number of items learned in each session and the percent of correct responses to 30 items presented in each session.

Retention probes were administered using the same measurement system as described above was maintained.

TEACHING/LEARNING PROCEDURES

Pre-baseline:

Upper case alphabet letters:

The mother followed the procedures described by Burdett, Fox (1972) to teach Paul the 26 upper case alphabet letters.



Baseline:

All other skills were taught consecutively in a similar manner during two daily teaching/learning sessions. Session I took place after lunch and Session II occurred after dinner.

(Order of presented items is included following this study.)

Differences from the normal flashcard procedure included:

- 1. the actual shapes were used instead of flashcards when teaching shapes.
- 2. blocks were used instead of flashcards when Paul was asked to count objects in a set.
- 3. the rhythm was tapped by hand on the table.
- 4. the parent orally stated each of the words and asked Paul to tell the sound of the letter or letters that the word begins with for the naming initial sounds of words procedure.

Contingency:

Paul immediately after each correct response. At the end of the session, Paul was allowed to exchange his poker chips for special items or activities kept in a "fun box." Some of the items included marbles (2 poker chips), one piece of gum or candy (1 poker chip), and five minutes of bubble blowing (5 poker chips). The poker chips were spent daily with no opportunity to save chips from one day to the next.

Return to Baseline:

The same teaching/learning procedures were used as debed under Baseline conditions.

Retention Probes:

All "Learned" cards were shuffled and the top 20 cards were presented in the same manner as the Burdett-Fox procedure.

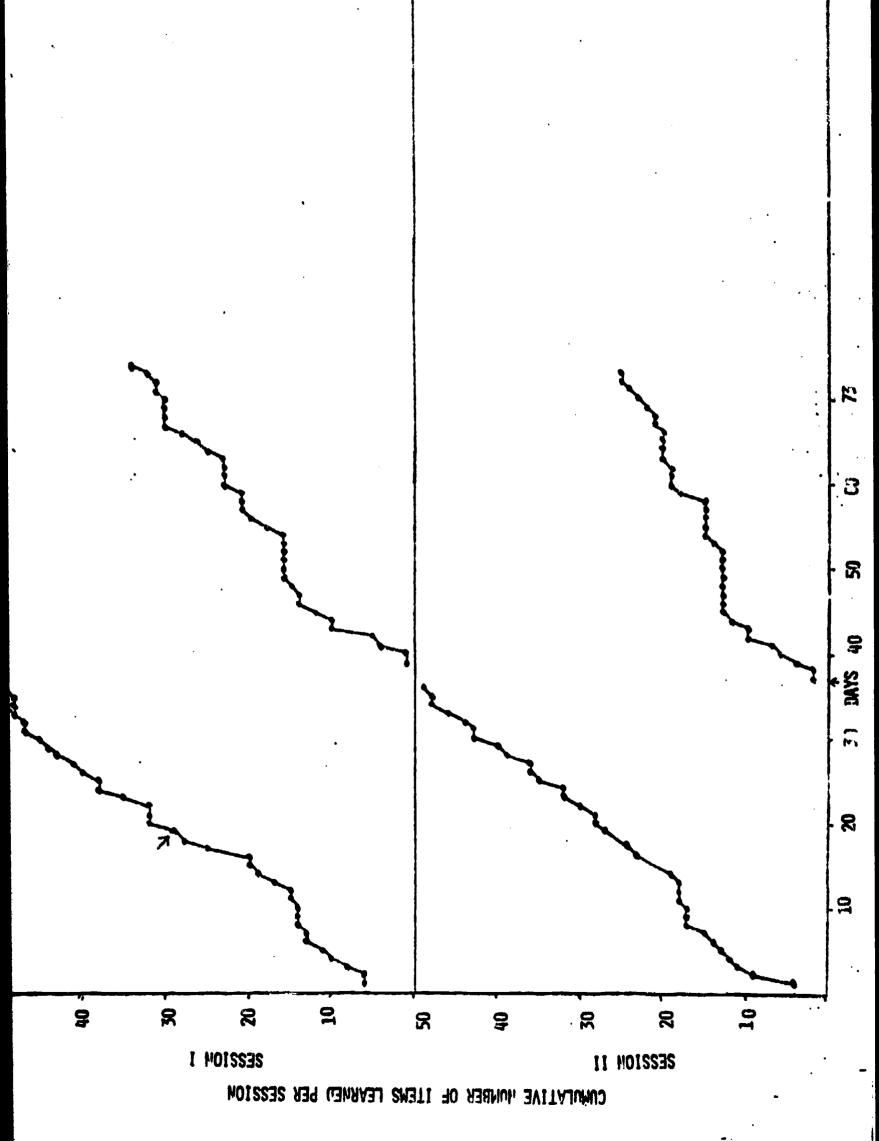
Twice each week after Paul Learned approximately 40 items.

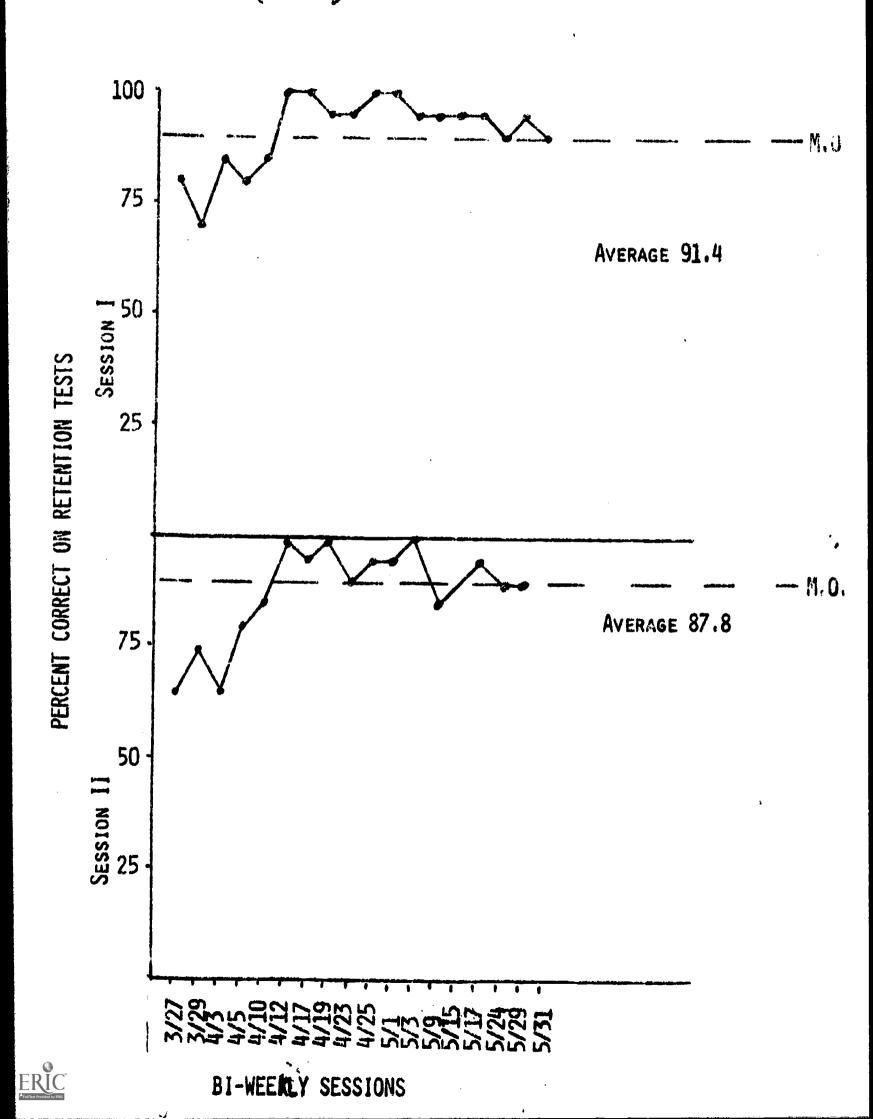
RESULTS

The cumulative graph shows that Paul learned 84 items in Session I over 74 sessions. His rate was 1.13 learned items per session. During Session II, he learned 75 items in 72 sessions for a rate of 1.04.

The overall average of retention of learned items for Session I was 91.4% for 18 sessions. The average for Session II was 87.8%.







RATE OF ACHIEVING MINIMUM OBJECTIVES

Table 1 shows the scores obtained for specific objectives over eight months.

	January	March	April	May	June	July	August
Alphabet recognition (upper case	.13	.69	.77	.81	. 67	.60	.21
Alphabet recognition (lower case		.47	. 21	.60	.46	. 34	.14
Consonant sounds	.00	.00	. 44	1.00	.00	.11	. 22
Numural recognition	.00	.10	.30	.60	.50	.60	.20
Counting sets (1-10)	.30	.20	.50	.70	1.00	.70	.60
Recognition of shapes	.67	1.00	1.00	_	1.00		1.00
Rhythm pattern imitation	.50	. 0.0	.00	. 50	.50	1.00	1.GÚ

Table 1

Table 2 shows the overall scores for the EEEP entry level test over eight months.

	-		-				_
January	March	April	May	June	July	August	
498	好许餐	56%	71%	69%	73%	70%	

Table 2



APPENDIX A

ORDER OF ITEMS FOR EACH SESSION

SESSION #1			SESSIO	N #2
t. Lower Case A	lphabet	1.	Lower Case Alpha	bel
			c	
W			e	
1 a			t	
			g	
m			g Z f	
b i			u	
			ĥ	
a			0	
k	1		5	•
v			q	
			x n	
ŗ			11	
	·		Numerals	
2. Numerals	•			
. 8			7	
8 2			4 1	
6			<u>1</u> 9	
10			5	
2. Initial Con	nsonant Sounds		Initial Consor	nant Sounds
Consonant	Example		Consonant	Example
2	pet		1.	<u>l</u> ul1
b	bed		m	man
t	tan		n	none
đ	उं०		r	roar
k	<u>ķ</u> ite		y	von
g,	go		ħ	his
£	fold		W	wave
v	visit		j	jump
S	say		C	COM
			ħ	hat
7.	zip			•

circle triangle square rectangle

5. VOWEL SOUNDS

e as in item a as in drama
o as in button u as in circus
i as in devil

6. COUNTING CBJECTS IN SETS

Session #1

2
5
5
9
7
10

7. CONSONANT BLENDS

Session #2 Session #1 Blend Example Example Blenc gniwe SW Church ch twin tw show sh brew יגל <u>sk</u>ate sk black bi. small. sm glue gl snow sn play pl spel1 sp front fr stand st train tr

8. RHYTHMS

three beat

four beat

9. NAMING INITIAL SOUNDS OF WORDS

Session #1	Session #2
king	200
mat	gost
church	lamb
dog	stairs
shoe	twin
sky	fine .
pig	, jump
wet	brown
yes	sign
small	vest
snow	glue
speak	blue
teņ	hot
nest	run
train	boy
plane	swim
front	

10. Word Recognition

Session I

Session II

37. your

38. six

39. nine

40. getting

1.	some	37.	it's
2.	of	38.	
3.	this		eight
	a	40.	-
5.	less		
6.	dab		
7.	pond		
8.	_		
9.	Ellen		
10.	said		
11.	not		
	right		
13.	I	·	
14.	Ned		
15.	Nell		
16.	Ted		
17.	Nan		
18.	crash		
19.	dress		
20.	stood		
21.	bend		
22.	danced		
23.	be		
24.	stand		
25.	bent		
26.	sit		
27.	sat		
28.	shoe		
29.	don't		
30.	off		
31.	three		
32.	ticks		
33.	close		
34.	tie		
35.	five		
36.	late		

	Session	1.3.
1.	little	
2.	bread	
3.	that	
4.	and	
5.	bit	
6.	the	
7.	is	
8.	at	
9.	too	
10.	big	
11.	just	
12.	tent	
13.	led	
14.	to	
15.	Bill	
16.	Al	
17.	Nat	
18.	ballerina	
19.	in	
20.	dance	
21.	it	
22.	Bess	
23.	want	
24.	red	
25.	wants	
26.	satin	
27.	one	
28.	clock	
29.	ten	
30.	two	
31.	door	
	count	
33.		
34.	four	
35.	seven	

36. again

Appendix ii

PROCEDURAL GUIDELINES FOR SURVEYING PARENTS AND IDENTIFYING CHILDREN ELIGIBLE FOR ESSENTIAL EARLY EDUCATION SERVICES

Essential Early Education Project

Special Education Program

College of Education

University of Vermont

March, 1973

Martha Knight

B. J. Lates

Mary Carter

Nancy Friedman

Marcia Grad



SET LIFT WHILELE

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Acknowledgement

The project reported herein was performed pursuant to Title VI, ESEA funding made available through the Vermont State Department of Education, Division of Special Educational and Pupil Personnel Services to the Colchester and Chittenden South School Districts.



Introduction

The Essential Early Education Project has developed and implemented two procedures for surveying a school district in order to identify children who he dispecial help learning fundamental skills before they enter first grade. The first procedure was developed for a school district which conducts a school census each year; it was implemented in Colchester in 1971 and replicated in 1972. The second procedure was developed for a school district with no annual census and was implemented in Williston in 1972.

This year (1972-1973) the project staff was concerned primarily with the identification of children expected to enter first grade in the fall of 1973. Survey and identification procedures were initiated in September, 1972 and were to be completed by December 15, 1972. However, lack of a school census in one district, extensive follow-up measures and revision of entry level measures delayed completion of the task until Tebruary 1, 1973. Descriptions of the two survey procedures with recommendations for implementation in other school districts are included in this report.



SURVEY AND REFERRAL PROCEDURES FOR A DISTRICT WITH A SCHOOL CENSUS

- 1) The E.D.E.P. staff first contacted the person in charge of school census and arranged to have use of census cards for several hours.
- 2) In Colchester census cards were arranged by street. Recorded on each card were the parent's name, address, phone number, and the name, age, and date of birth of each child in the family. A list of children expected to enter first grade in the fall was developed by copying the above information on a separate 3" x 5" card for enildren born in a particular year (i.e., 1967). These cards were then filed alphabetically.
- After a master list of all children born in 1967 was compiled, parents were surveyed as to whather their child might need special help in first grade. A skills survey with a self-addressed, stamped envelope and letter of explanation were sent to parents of each child. (Appendix A)
- Parent survey responses were recorded on each child's card. Recronses indicating a possible deficit (i.e., parent indicated
 child needed relp child was not entering first grade, parent wrote
 note indicating possible problem) were filed separately.
- 5) A second serior and survey form were sent to parents who did not respond within two weeks.
- 6) Parents who did of return the second survey form were contacted by telephone.
- 7) If there was no telephone, a third letter and survey form were sent. If again there was no response names and addresses were verified with the post office. Those parents who could not be contacted in any other way were finally visited by an E.E.D.P., staff member at their home.





SURVEY PROCEDURES FOR A DISTRICT WITHOUT A SCHOOL CENSUS

- 1) The E.E.P. staff first contacted the school and obtained a list of school families. The names and addresses were put on 3" x 5" cards and arranged in alphabetical order.
- 2) The Town Clerk was then contacted and poll tax cards, property ownership lists, and voter registration lists were obtained.
- Names and addresses of all persons not on the school list were placed on 3" x 5" cards with a note indicating source of information (P=poll tax, etc.). Also included were the birthdate of the person, if available, and marital status. Some poll tax cards included names and birthdates of children. This information was transferred to 3" x 5" cards also. When all possible sources of information had been checked, cards were filed alphabetically.
- 4) A letter of explanation was then sent to all residents with a stamped, self-addressed post card (see Appendix B) asking whether or not there was a five year old child in the household, and if yes, the name and birthdate of the child and name of the parent.
- 5) Responses from the survey were recorded on each card. Separate cards were made for five year old children and filed alphabetically.
- 6) A second mailing was sent to those people who did not respond within two weeks.
- 7) Those who did not respond to the second letter were called and the information obtained by a lethous.



- 18) For each person who could not be contacted by phone, the staff checked with the Town Clerk's of ice to determine if the person still lived in town, if they were the spouse, son, or daughter of a person who had already responded, if they might have a five year old child, or how they might be contacted.
- 9) When no further information was available from the Town Clerk, the staff contacted the post office to see if the persons were still residing in the town at that address. An urgent letter was sent requesting a response
- 10) In addition to the survey pross, all private kindergartens in the area were contacted and strong five year old children who resided in the target school district was obtained from them.
- 11), 12), 13), 14), 15) Once a list of five year old children had been compiled, procedures for obtaining referrals from parents were the same as described in the procedures for a school district with a school census (Steps 3-7).



RECOMMENDATIONS FOR IMPLEMENTATION OF SURVEY PROCEDURES

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The first method of obtaining a list of entering first graders took two people approximately four hours to complete. The second method proved to be extremely expensive and time consuming. Obtaining the list of town residents took two people approximately one full week to complete. In addition, the response to the mailings was poor and the follow-up phone calls and necessary leg work tracking down people took an enormous amount of time. School officials estimated that between 80 and 100 children were expected to enter school the following fall. Only 60 names were obtained by the survey procedures, including the kindergartens identification. A public notice was put in the paper but this yielded no new information.

Obviously, it would be ideal if each school district conducted a survey of preschool aged children. The poll tax listers could be given a card to be filled out by each household asking the names of all children ages 0 to 21 years. This would provide the school with a more accurate estimate of the incoming number of first graders and we ld table the townspeople to butter plan for such things as administrate of electroom space and additional teachers.

An alternative proposal for the identification of five year olds would be to ask parents of five year olds to pre-register for first grade at a specified time (presenably one year before expected first grade entry) and a specified place through the local news media (i.e., newspaper, radio, T. V.).

If neither of the above described methods could be used, possibly the school parent organization could be enlisted to conduct a house to house canvas.



TESTING PROCEDURES

When all responses had been obtained, parents who reported a possible problem were contacted and an appointment made to visit the home and administer the skills inventory (entry level test) to the child. (See Appendix C for example of telephone conversation for this purpose.)

A critical concern of the Essential Early Education Project staff in the fall of 1972 was that all tests be administered uniformly and reliably checked. As a result, testing procedures were refined and instructions given to testers prior to their first testing situation. (See Appendix D, pages 1 and 2.) In addition, each tester was required to give a practice test to a child with 100% procedural reliability before visiting a home. All tests are tape recorded so that reliability of verbal responses can be checked.

To further refine the test, defined social behaviors are observed and tallied by the tester during the testing situation (pages 3 and 4 of the test, Appendix D). All eligible children are further assessed in social and self-care areas.

SCORING PROCEDURES

A second concern of the project staff was the refinement of the test sporing procedures. To insure the most reliable score possible, procedures were outlined (see Appendix E) and criteria agreed upon. All tests are first scored by the tester as he listens to the tape recording of the testing situation and the results are recorded on the scoring sheet. Then an observer independently listens to the tape and records the score he obtains. The scores of the tester and the observer must agree if the data are to be considered reliable.

The parents are sent a checklist of the skills tested which indicates the skills the child achieved.



ELIGIBILITY

Children scoring lowest on the entry level test in each school district are considered eligible for Essential Early Education services.



APPENDIX A



BEST COPY AVAILABLE

COLCHESTER PUBLIC SCHOOLS

ADMINISTRATION OFFICES P.O. BOX 115 COLCHESTER, VERMONT 05446 TEL. 802/658-4047

Residend T. Grimley Superintendent

John T. Gutnien Business Manager

Essential Early Education Project

October 25, 1972

Dear Parent,

In cooperation with the State Department of Education, the Colchester School District is surveying all parents of children expected to enter first grade next September, 1973.

This survey is being conducted in order to estimate the number of children who might need special help in learning skills necessary for achievement in school. We would appreciate your answering these restions.

Please return this form in the enclosed envelope at the earliest possible date. Thank you for your help.

Sincerely,

(Mrs.) B. J. Lates

656-2936



Colchester School District

Child's Name	Date of Birth	
•	hild attend a nursery school, day care center n on a regular basis?	r, or
	YES	s n o
2. Will your c	child be entering first grade next fall?	
	YE	s no
	that your child needs special help before en my of the following areas?	ntering
LANGUA	GE SKILLS YE	s no
•	sing, Listening to stories, owing directions, etc.)	
MOTOR	SKILLS YE	s no
	ing with scissors, Drawing, ing, Jumping, Walking, etc.)	
SELF-C	CARE SKILLS YE	s no
	toilet, Dressing self, ing self, etc.)	
SOCIAL	L SKILLS YE	s No
	ing with others, Playing	
by hi	imself, Talking with adults, etc.)	



APPENDIX B



ESSENTIAL EARLY EDUCATION PROJECT

2 Colchester Avenue

Burlington, Vermont 05401

October 23, 1972

Dear Resident of Williston,

In cooperation with the State Department of Education, we are surveying residents of Williston in order to identify children eligible to attend first grade in September, 1973.

Please check on the enclosed card whether or not there is a child born during 1967 in your family, and if so, list the child's name and birth date, and the name of the child's parent or guardian.

Even if you do not have a child born in 1967, your cooperation in returning the enclosed, stamped post card is vital to the success of this project, and will save us a follow up phone call. Thank you very much for your help.

Sincerely,

Marthu G. Lengtet

Martha F. Knight

Coordinator

655-2936



APPENDIX C



MEMO

TO: Rosie, Jim, Carmen, Marcia, B. J., Nancy

FROM: Martha and Mary

RE: Making appointments with Colchester parents

DATE: December 18, 1972

Please call your assigned people by Friday, December 22nd and have appointments made for the week after New Years (beginning January 2nd). Turn cards in to Mary on Friday with the date called and the date and time of the appointment. Be sure you have directions to the person's house.

Objective: Given a parent of a child who will enter first grade and/or who was born in 1967 and who has reported that his/her child may need special help prior to school in one or more skills areas, the caller will arrange an appointment to have the child tested in his home.

Sample conversation: My name is ______ and I'm calling from the Essential Early Education Project. Do you remember returning a survey form we sent you several weeks ago about _____ 's entering first grade next fall? On the form you indicated he/she might need special help with ___ (area) ____ skills before entering school.

Our project is trying to gather more information about children who need special help before starting school in order for the School District to plan a way to help these children.

Would it be possible for me to visit your home and give a simple skills test which would help us in this process? Would (date, time) be convenient for you?

The test will take about half an hour and I'll need a table and two chairs near an electrical outlet for a tape recorder. The kitchen table might be a good place.

It is important that I be alone with ______ at this time because the presence of another person might affect his answers. The test involves asking the child to do some simple things most children do by first grade. These are activities like cutting with scissors, naming colors, jumping and catching a ball. Children really seem to enjoy the test; it's really fun. I'll need part of the kitchen or a hall for a few of these things where I could lay down a 10 foot tape. Is that all right?

Can you give me directions to your house? Thank you very much. I'll look forward to seeting you and _____ on _(date, time) __ and I'll call you the day before just to confirm our appointment.



Page 2

Possible questions parents might ask:

- Q. What's going to happen to the results? (How will I know how well he does on the test?)
- A. The results will be shared with you and ______'s first grade teacher. This information will help her in planning an instructional program for him/her.
- Q. What if he needs speech therapy?
- A. There is a speech therapist in the Colchester schools who checks all the first graders at the beginning of the year. She would certainly provide help for if she thought he needed it.
- Q. I'm afraid ____ is going to have trouble in first grade.
- A. If the test results indicate this, we will call it to the attention of the school and recommend that his/her teacher work with the consulting teacher to plan a special program for .
- Q. Is this absolutely necessary?
- A. Yes, we really would like to have this information on all children whose parents returned forms indicating their child might need help. The test only takes about half an hour to give and the information will really help us.
- Q. What will you need the tape recorder for?
- A. Some of the answers will be difficult to write down, so if we record everything our results can be really accurate.
- Q. What if the tape recorder makes him shy?
- A. Children seem to adapt very quickly to this situation and even find it fun. It wou't be that noticeable to the child.



APPENDIX D



The University of Vermont



COLLEGE OF EDUCATION, SPECIAL EDUCATION PROGRAM
CONSULTING TEACHER PROGRAM, 2 COLCHESTER AVENUE
BURLINGTON, VERMONT 05401

Letter of Permission

I give n	my consent for			to be
tested by the service and n	e Essential Early Edresearch program of esity of Vermont und	lucation Pro the Special	ject, an e Education sership of	Program the
State Departm	ment of Education.	Denoor prat	iici and i	iie vermoiie
for scientif:	stand that the resulic purposes and that ill be maintained in	the strict	est standa	rds of
Signature:				
	parent or guardia	lli		
	EEFF coordinate) <u>Y</u> '		
Date:		-directions on annual		



APPENDIX E



CHILD'S NAME	DATE
ADMINISTERED BY	START TIME
	FINISH TIME

GENERAL PROCEDURES FOR ADMINISTERING SKILLS TEST

- 1. Start cassette when you sit down and are alone with the child. Record start time on test booklet.
- 2. For about three minutes, chat with the child before the test begins. Ask him questions like "What's your favorite T.V. show?" and "What do you like to play with?". Respond to what the child says. It is important to establish yourself as a reinforcer. If child does not respond after three questions, begin test anyway.
- 3. Keep skills test on a clipboard so that the child cannot see you recording his responses.
- 4. Empty out test materials and place them near you, but not in close reach of the child. This will allow you to obtain the needed materials easily.
- 5. Remember to put the child's name and date on the test booklet and the cassette tape, as well as on the picture he draws, and on the circle he will cut out. The tester should also put his name on the test.
- 6. Speak slowly and clearly. State the directions exactly as they appear on the test.
- 7. Give no prompts unless they are indicated in the procedures on the test. If the child says, "What" or "Huh", etc., repeat the directions exactly as stated on the test.



- 8. Praise the child for correct responses and appropriate verbalizations as you go through the test. Say things like, "That's right", "Good", "Fine", or "Terrific". Praise can be given after an item is finished and you are recording the response. Ignore all incorrect responses and aggressive speech or inappropriate verbalizations. For transition between items and to retain child's attention, it is appropriate to say "Now" or "Are you ready" or say child's name.
- 9. Remember to lay down the 10 foot tape from the test materials before the test begins. A measuring tape is provided to mark six feet for throwing and catching.
- 10. Memorize codes of behaviors to be directly observed by tester. During each item on the test, tally in the column marked "tester observation" the frequency of behaviors emitted by the child during that item. Note also in the column any times you have to instruct the child to return to the testing area or to sit down because he left his seat.
- 11. Use a stopwatch to measure the length of time it takes the child to recite the alphabet, count to ten, write his name, cut out the circle, and draw a man.
- 12. Keep the stopwatch in the palm of your hand so that it is not in full view of the child.

DEFINITIONS AND OBSERVATION SHEET FOR TESTER

1.	LA = LOOKING AROUND
	How many times did the child look around the room or look
	out the window or stare into space during the test?
2.	OS = OUT OF SEAT
-	How many times did the child leave his seat (chair) without
	permission during the test?
3.	IL = INAPPROPRIATE LOCALE
	How many times did the child move 2 feet or more away from
	a designated test area without permission (e.g. the taped
•	line)?
4.	AA = AGGRESSIVE ACTION
	How many times does the child use aggressions toward the tester
	or test materials (e.g. hit you, or damage test materials
	by throwing, tearing, marking) other than as directed?
5.	IM = INAPPROPRIATE MOTOR RESPONSE
	How many times during the test did the child emit inappropriate
	motor behaviors such as wiggling in chair, kicking table leg,
	touching test materials when not directed to, etc.?
6.	AV = APPROPRIATE VERBALIZATION
	How many times did the child make statements that were
	related to the test or the test materials?
	related to the test of the test materials.
7.	IV = INAPPROPRIATE VERBALIZATIONS
	How many times did the child make statements that were not
	related to the test or the test materials?
8.	
	How many times did the child use aggressive speech during
	or after the test (e.g., swearing, obscenities, threatening
	speech)?

9.	R = REPEAT DIRECTIONS OR QUESTIONS TO CHILD
	How many times did you have to repeat the test question or
	test directions to the child because he/she may have said,
	"What" or "Huh" or "I didn't hear you"?
10.	Did the child have a noticeable speech deficit? If yes, check:articulation problem
	voice problem (nasal, too soft, too loud, hoarse, stuttering, hesitation)
	other
11.	Did the child engage in any self-stimulating behaviors (e.g. thumbsucking, swinging his/her foot, rubbing his nose, ears, forehead, tapping his finger, scratching) to such an extent that attention to other activities was precluded?
	If yes, approximately how long?
12.	Did the child cry or whine for no apparent reason before, during, or after the test?



rt time	TESTE	R OBSERVATION
COUNTS TO TEN	LA	AV
Say, "The first thing I'd like you to do is	os	IV
count. Let me hear you count to ten."	IL	AS
Start the stopwatch after giving the directions.	AA	R
Stop the storwatch when the child finishes or	IM	
after a maximum of one minute. If the child		
has not begun to respond within 5 seconds,		
record "no response" and go on to the next		
item. Record each number named by the child.		
TIME		
RECITES ALPHABET	LA	AV
Say, "Now, let me hear you say the alphabet."	0S	IV
Start the stopwatch after giving the directions.	IL	AS
Stop the stopwatch when the child finishes or	AA	R
after a maximum of one minute. If the child	IM	
has not begun to respond within 5 seconds,		
record "no response" and go on to the next		
item. Record each letter named by the child.		
TIME		
REPEATS SEVEN WORD SENTENCE	LA	ΛV
Say, "Now I'm going to say some words. You	os	
listen and when I am through, you say the	IL	AS
words. The girl played outside in the snow."	ΑΑ	R
Give the child 5 seconds to begin to respond.	IM	<u> </u>
Record each word said by the child. If child		
does not begin to respond in 5 seconds, record		
"no response."		



		AVAIL TO AVAIL		
WRITES	FIRST NAME	BEST CUTY AVAILAB	LA_	AV
Say, "N	ow I'd like you	to write your first name		IV
this bo	x." Point to b	ox on the back of test pag	ge. IL_	AS
Give th	e child the pri	mary pencil from the test	AA_	R
materia	ls. Start the	stopwatch when the child	IM_	
brings	the pencil in c	ontact with the paper. St	top	
the sto	pwatch when the	child finishes.		
		TIME		
ARRANGE	S PICTURES IN S	EQUENTIAL ORDER	LA	AV
	<u>_</u>	ures from the test materia	als OS	IV
_	-	, using the numbers on the		AS
	_	y, "Put these pictures in	_	R
order s	o they tell a s	tory." Give the child a	IM_	
maximum	of 30 seconds	to put the pictures in		· · · · · ·
order.	Say, "That's f	ine." Record the order in	n	
		ine." Record the order inges the pictures, using the		
which t				
DESCRIE Be surce	he child arrang on the back. ES PICTURES IN pictures are i		LA_ OS_	AV IV AS
DESCRIE Be surce "I'm go	he child arrang on the back. ES PICTURES IN pictures are ing to tell you	COMPLETE SENTENCES In correct order. Say,	LA_ OS_ ture." IL_	IV
DESCRIE Be surce "I'm go Point to	he child arrang on the back. ES PICTURES IN pictures are ing to tell you o the first pic	COMPLETE SENTENCES In correct order. Say, I something about each pic	LA_OS_ture." IL_	IV
DESCRIE Be surce "I'm go Point to ing his "He bun	he child arrang on the back. ES PICTURES IN pictures are ing to tell you o the first pictures bike." Point aped into a log.	COMPLETE SENTENCES In correct order. Say, I something about each picture and say, "The boy is to the second picture and	LA_OS_ture." IL_rid- AA_say IM_ture	IV
DESCRIE Be surce "I'm go Point to ing his "He bun and say	he child arrang on the back. ES PICTURES IN pictures are ing to tell you o the first picture. Point aped into a log of the fell off	COMPLETE SENTENCES In correct order. Say, I something about each picture and say, "The boy is to the second picture and " Point to the third picture bike." Point to the	LA_OS_ture." IL_rid- AA_say IM_ture	IV
DESCRIE Be surce "I'm go Point to ing his "He bun and say picture	he child arrang on the back. ES PICTURES IN pictures are ing to tell you o the first picture. Point aped into a log of the fell off and say, "What	COMPLETE SENTENCES In correct order. Say, I something about each picture and say, "The boy is to the second picture and " Point to the third picture his bike." Point to the	LA_OS_ture." IL_ rid- AA_ say IM_ ture fourth ture?"	IV
DESCRIE Be surce "I'm go Point to ing his "He bun and say picture Wait 5	he child arrang on the back. ES PICTURES IN pictures are ing to tell you o the first picture. Point aped into a log of the fell off and say, "What seconds for the	COMPLETE SENTENCES In correct order. Say, something about each picture and say, "The boy is to the second picture and " Point to the third picture is happening in this picture is child to begin to response	LA_OS_ture." IL_rid-AA_say IM_ture fourth ture?"	IV
DESCRIE Be surce "I'm go Point to ing his "He bun and say picture Wait 5 Record	he child arrange on the back. ES PICTURES IN pictures are in ing to tell you on the first picture bike." Point aped into a log of the fell off and say, "What seconds for the the response of	COMPLETE SENTENCES In correct order. Say, I something about each picture and say, "The boy is to the second picture and " Point to the third picture is happening in this picture is child to begin to response the child in his own work	LA_OS_ture." IL_rid- AA_say IM_ture fourth ture?"d.ds, giving	IV
DESCRIE Be surce "I'm go Point to ing his "He bun and say picture Wait 5 Record no cues	he child arrange on the back. ES PICTURES IN pictures are in ing to tell you on the first picture. Point aped into a log of the fell off and say, "What seconds for the response of or prompts otherwise of the prompts of the response of the prompts of the prompts of the response of the prompts of the promp	COMPLETE SENTENCES In correct order. Say, I something about each picture and say, "The boy is to the second picture and " Point to the third picture and this bike." Point to the cis happening in this picture child to begin to respond the child in his own worder than the initial quest	LA_OS_ture." IL_rid- AA_say IM_ture fourth ture?"d.ds, giving ion.	IV
DESCRIE Be surce "I'm go Point to ing his "He bun and say picture Wait 5 Record no cues If the	he child arrange on the back. ES PICTURES IN pictures are in ing to tell you on the first picture. Point aped into a log of the fell off and say, "What seconds for the tesponse of or prompts otherwise the does not child does not	COMPLETE SENTENCES In correct order. Say, I something about each picture and say, "The boy is to the second picture and "Point to the third picture and this bike." Point to the cis happening in this picture child to begin to respond the child in his own worder than the initial quest begin to respond within 5	LA_OS_ture." IL_rid-AA_say IM_ture fourth ture?"d.ds, giving ion. seconds,	IV
DESCRIE Be surce "I'm go Point to ing his "He bun and say picture Wait 5 Record no cues If the record	he child arrange on the back. ES PICTURES IN pictures are in ing to tell you on the first picture. Point aped into a log of the fell off and say, "What seconds for the temporal of the response of the prompts of the child does not "no response".	COMPLETE SENTENCES In correct order. Say, something about each picture and say, "The boy is to the second picture and " Point to the third picture his bike." Point to the cis happening in this picture child to begin to respond the child in his own worder than the initial quest begin to respond within 5 If the child has begun to	LA_OS_ture." IL_rid- AA_say IM_ture fourth ture?"d.ds, giving ion. seconds, o respond	IV
DESCRIE Be surce "I'm go Point to ing his "He bun and say picture Wait 5 Record no cues If the record within	es PICTURES IN pictures are ing to tell you o the first picture and say, "What seconds for the the response of child does not "no response" 5 seconds, rece	COMPLETE SENTENCES In correct order. Say, I something about each picture and say, "The boy is to the second picture and " Point to the third picture and " Point to the third picture is happening in this picture is child to begin to response the child in his own worder than the initial quest begin to respond within 5 If the child has begun to response for a max	LA_OS_ture." IL_rid- AA_say IM_ture fourth ture?" d. ds, giving ion. seconds, o respond imum of	IV
DESCRIE Be sure "I'm go Point to ing his "He bun and say picture Wait 5 Record no cues If the record within 30 secons	es PICTURES IN pictures are in ing to tell you on the first pictures are ingent into a log of the fell off and say, "What seconds for the the response of the response of the response of the into a log or prompts of the response of the re	COMPLETE SENTENCES In correct order. Say, something about each picture and say, "The boy is to the second picture and " Point to the third picture his bike." Point to the cis happening in this picture child to begin to respond the child in his own worder than the initial quest begin to respond within 5 If the child has begun to	LA_OS_ture." IL_rid- AA_say IM_ture fourth ture?" d. ds, giving ion. seconds, o respond imum of se a stop-	IV

TELLS PROBABLE OUTCOME OF PREDICTABLE EVENT	LA	^V_
Point to the pictures and say, "Let's look at	os	IV_
these pictures again. The boy is riding his bike.	IL	AS_
He bumped into a log. He fell off his bike. The	ΛΑ	R
boy hurt himself. What do you think will happen	IM	
next?" Wait 5 seconds for the child to begin to		
respond. Record the response in his own words,		
giving no cues or prompts other than the initial		
question. If the child does not begin to respond		
within 5 seconds, record "no response" and go on		
to the next item.		
· · · · · · · · · · · · · · · · · · ·	_	
TELLS NUMBER OF ORIECTS IN A SET	— .	ΛV
TELLS NUMBER OF OBJECTS IN A SET	 LA	AV_
Place a set of blocks on the table in a line.	08	IV_
Place a set of blocks on the table in a line. Say, "Count these blocks and tell me how many are		··· -
Place a set of blocks on the table in a line. Say, "Count these blocks and tell me how many are on the table now." When presenting the rest of the	os	IV_ AS_
Place a set of blocks on the table in a line. Say, "Count these blocks and tell me how many are on the table now." When presenting the rest of the sets ask, "How many are there now?" Record a "+" or	OS IL	IV_
Place a set of blocks on the table in a line. Say, "Count these blocks and tell me how many are on the table now." When presenting the rest of the sets ask, "How many are there now?" Record a "+" or a "0" for the child's response. Present the sets	OS IL AA IM	IV_ AS_
Place a set of blocks on the table in a line. Say, "Count these blocks and tell me how many are on the table now." When presenting the rest of the sets ask, "How many are there now?" Record a "+" or	OS IL AA IM	IV_ AS_
Place a set of blocks on the table in a line. Say, "Count these blocks and tell me how many are on the table now." When presenting the rest of the sets ask, "How many are there now?" Record a "+" or a "0" for the child's response. Present the sets	OS IL AA IM	IV_ AS_
Place a set of blocks on the table in a line. Say, "Count these blocks and tell me how many are on the table now." When presenting the rest of the sets ask, "How many are there now?" Record a "+" or a "0" for the child's response. Present the sets in the following order: 2, 5, 9, 7, 10, 3, 1, 6, 8,	OS IL AA IM	IV_ AS_



NAMES UPPER CASE LE	TTERS IN NON-SYSTEMATIC ORDER	LAAV_
Say, "I am going to	show you some letters. If	os IV_
you know what the 1	etter is, tell me. If you	IL AS_
don't know, say 'I	don't know'". Present the	AA R
cards in the order	indicated below. Wait 3	IM
seconds for a respo	nse. Mark a "+" if the	
child answers corre	ctly. If the child answers	
_	s not respond within	
3 seconds or says, "0".	"I don't know," record a	
w	c	
L	E	
D	T	
Y	G	
M	Z	
В	F	
I	u	
A	Н	
K	0	
P	S	
v	Q	
R	x	
J	N	

10.	NAMES LOWER CASE LETTERS IN	NON-SYSTEMATIC ORDER	LA	_ AV
	(Procedures same as for upper	case.)	os	_ IV
			IL	ΛS
	w	c	AA	
	1	e	IM	
	d	t		
	у	g		
	m	2		
	b	f		
	i	u		
	a	<u></u>		
	k	0		
	p			
	P	s		
	v	q		
	r	x		
		n		
.1.	NAMES NUMERALS IN NON-SYSTEM		LA	AV
	Say, "I am going to show you		os_	IV
	"If you know what the number		IL_	AS
•	you don't know, say, 'I don't	know.'" Present	AA_	R
	the cards in the order indica	ited below. Wait	IM	
	3 seconds for a response. Ma	rk a "+" if the		
	child answers correctly. If	the child answers		
	incorrectly or does not respo			
	seconds or says "I don't know			
	"O".	, indik d		
	8	7		
	2	4		
	6	1		
	10	9		
	3	5		
<u>IC</u>				
nided by ERIC				

carefully and tell me what sounds the words start with. The word "dad" starts with the sound "d". Say, "d". What sound does (word) start with?" Wait 3 seconds for a response after saying the word. Repeat the question for each word. Mark a "+" if the child gives the correct consonant sound only. Mark a ""0" if the child gives the incorrect sound or does not respond within 3 seconds. king ghost mat lamb pig fine dog jump wet sign yes vest ten hat nest run zoo boy 'CUTS OUT CIRCLE Give the child the scissors from the test OS materials and the circle from the back of this test packet. Say, "Let me see you cut out this circle. Try to stay on the line." Put the child's name and date on the circle. Keep all scraps of paper in the test folder. Use a stopwatch to measure the time it takes the child to cut out the	•	TELLS INITIAL CONSONA	ANT SOUNDS OF WORDS	1.A	AV_
start with. The word "dad" starts with the sound "d". Say, "d". What sound does (word) start With?" Wait 3 seconds for a response after saying the word. Repeat the question for each word. Mark a "+" if the child gives the correct consonant sound only. Mark a ""0" if the child gives the incorrect sound or does not respond within 3 seconds. king ghost mat lamb pig fine dog jump wet sign yes vest ten hat nest run zoo boy CUTS OUT CIRCLE Give the child the scissors from the test OS materials and the circle from the back of this IL test packet. Say, "Let me see you cut out this circle. Try to stay on the line." Put the child's name and date on the circle. Keep all scraps of paper in the test folder. Use a stopwatch to measure the time it takes the child to cut out the	\$	ay, "Now I'm going to	say some words. Listen	08	IV_
"d". Say, "d". What sound does (word) start with?" Wait 3 seconds for a response after saying the word. Repeat the question for each word. Mark a "+" if the child gives the correct consonant sound only. Mark a ""0" if the child gives the incorrect sound or does not respond within 3 seconds. king ghost mat lamb pig fine dog jump wet sign yes vest ten hat nest run zoo boy CUTS OUT CIRCLE Give the child the scissors from the test OS materials and the circle from the back of this IL test packet. Say, "Let me see you cut out this circle. Try to stay on the line." Put the child's name and date on the circle. Keep all scraps of paper in the test folder. Use a stopwatch to measure the time it takes the child to cut out the	9	arefully and tell me	what sounds the words	IL	AS
with?" Wait 3 seconds for a response after saying the word. Repeat the question for each word. Mark a "+" if the child gives the correct consonant sound only. Mark a "0" if the child gives the incorrect sound or does not respond within 3 seconds. kingshostmatlambpigfinedogjumpwetsignyesvesttenhatnestrunzooboy CUTS OUT CIRCLE Give the child the scissors from the test08materials and the circle from the back of this test packet. Say, "Let me see you cut out thiscircle. Try to stay on the line." Put the IM	2	tart with. The word	"dad" starts with the sound	AA	1
the word. Repeat the question for each word. Mark a "+" if the child gives the correct consonant sound only. Mark a "0" if the child gives the incorrect sound or does not respond within 3 seconds. king	**	d". Say, "d". What	sound does (word) start	IM	<u></u>
Mark a "+" if the child gives the correct consonant sound only. Mark a""0" if the child gives the incorrect sound or does not respond within 3 seconds.	¥	ith?" Wait 3 seconds	for a response after saying		
consonant sound only. Mark a""0" if the child gives the incorrect sound or does not respond within 3 seconds.	t	the word. Repeat the	question for each word.		
gives the incorrect sound or does not respond within 3 seconds. kingghostmatlambpigfinedogjumpwetsignyesvesttenhatnestrunzooboy CUTS OUT CIRCLE Give the child the scissors from the test08	M	lark a "+" if the chil	ld gives the correct		•
kingghost	Ċ	consonant sound only.	Mark a""0" if the child		
kingghostmatlambpigfinedogjumpwetsignyesvesttenhatnestrunzooboy 'CUTS OUT CIRCLE Give the child the scissors from the test0S materials and the circle from the back of thisIL test packet. Say, "Let me see you cut out thisAA circle. Try to stay on the line." Put theIM child's name and date on the circle. Keep all scraps of paper in the test folder. Use a stopwatch to measure the time it takes the child to cut out the	8	ives the incorrect so	ound or does not respond		
mat lamb pig fine dog jump wet sign yes vest ten hat nest run zoo boy CUTS OUT CIRCLE Give the child the scissors from the test OS materials and the circle from the back of this IL test packet. Say, "Let me see you cut out this AA circle. Try to stay on the line." Put the IM child's name and date on the circle. Keep all scraps of paper in the test folder. Use a stopwatch to measure the time it takes the child to cut out the	W	ithin 3 seconds.	•	•	
pig fine dog jump wet sign yes vest ten hat nest run zoo boy CUTS OUT CIRCLE Give the child the scissors from the test 08 materials and the circle from the back of this IL test packet. Say, "Let me see you cut out this AA circle. Try to stay on the line." Put the IM child's name and date on the circle. Keep all scraps of paper in the test folder. Use a stopwatch to measure the time it takes the child to cut out the	=	king	shost	•	
		mat	lamb		•
wesvesttenhatnestrunzooboy 'CUTS OUT CIRCLE Give the child the scissors from the test08 materials and the circle from the back of this	_	pig	fine	•	
	_	dog	jump		
	-	wet	sign		
	_	yes	vest		
CUTS OUT CIRCLE Give the child the scissors from the test materials and the circle from the back of this test packet. Say, "Let me see you cut out this circle. Try to stay on the line." Put the child's name and date on the circle. Keep all scraps of paper in the test folder. Use a stopwatch to measure the time it takes the child to cut out the	_	ten	'hat		
Give the child the scissors from the test materials and the circle from the back of this test packet. Say, "Let me see you cut out this circle. Try to stay on the line." Put the child's name and date on the circle. Keep all scraps of paper in the test folder. Use a stopwatch to measure the time it takes the child to cut out the	_	nest	run		•
Give the child the scissors from the test materials and the circle from the back of this test packet. Say, "Let me see you cut out this circle. Try to stay on the line." Put the child's name and date on the circle. Keep all scraps of paper in the test folder. Use a stopwatch to measure the time it takes the child to cut out the	•	200	boy		
materials and the circle from the back of this test packet. Say, "Let me see you cut out this circle. Try to stay on the line." Put the child's name and date on the circle. Keep all scraps of paper in the test folder. Use a stopwatch to measure the time it takes the child to cut out the	,	CUTS OUT CIRCLE		I.A	AV
test packet. Say, "Let me see you cut out this AA	G	live the child the sci	issors from the test	08	IV
circle. Try to stay on the line." Put the IM	11	materials and the circ	cle from the back of this	IL	AS
child's name and date on the circle. Keep all scraps of paper in the test folder. Use a stopwatch to measure the time it takes the child to cut out the	t	est packet. Say, "Le	st me see you cut out this	M	R
scraps of paper in the test folder. Use a stopwatch to measure the time it takes the child to cut out the	9	ircle. Try to stay of	on the line." Put the	IH	-
to measure the time it takes the child to cut out the	C	hild's name and date	on the circle. Keep all		4.
	8	craps of paper in the	test folder. Use a stopwate	eh .	
circle. TIME	to	measure the time it t	takes the child to cut out the	3	
	Ċ	ircle. TIME			
MMANUVIN MUNIMMAMA		الانتقاب بيدادين فالفي فالمناق والمستحدد	· ·	top	
HOLDS SCISSORS CORRECTLY Record a "+" if child holds scissors with thumb in top					

other way.

General Procedures: Say, "Now let's stand up and go over here."

Point to spot next to one end of tape and say, "Stand right here,"

(if child is not already in appropriate place). Stand next to child, but not on tape.

15.	WALKS		LA	_ AV
	Say, "Wat	tch me walk. Now you do it." Record a	08	IV
	"+" if cl	hild performs the following movements:	IL	AS
	1.	pushes off ground with ball and toes of	AA	R
		one foot	IM	_
	<u>·2</u> .	swings knee and ankle forward		
	3.	transfers weight to ball and toe of other		
		foot		
	4.	alternates right/left without breaking		
		sequence		
	5.	swings arms freely in opposition to legs		
	6.	points toes straight ahead		
	Record a	"0" if child does not include all of the		
	above mo	vements.		
16.	RUNS:		LA	_ AV
		tch me run. Now you do it." Record a	0S	VI
	"+" if c	hild persorms the following movements:	IL	_ AS
	1.	pushes off ground with ball and toe of	AA	_ R
		one foot	IM	_
	2.	raises knee of foot moving forward		
	3.	both feet leave ground		
	 4.	alternates right/left without breaking		
		sequence		
	5.	swings arms freely in opposition to legs		
	6.	points toes straight ahead		
	Record a	"0" if child does not include all of the		
	above mo	vements.		



17.	JUMPS:	LA	AV
	Say, "Watch me jump. Now you do it." Record a "+"	0S	IV
	if child hops with both feet leaving the floor and	IL	ΛS
	landing simultaneously for the entire 10 feet. Re-	ΛΛ	R
	cord a "0" if child does not hop on two feet with	IM	
	both feet leaving the floor and landing simultan-		
	eously for the length of the tape.		
18.	GALLOPS:	LA	AV
	Say, "Watch me gallop. Now you do it." Record	08	IV
	a "+" if child includes all of the following	IL	AS
	movements:	AA	R
	l. steps forward on one foot	IM	٠.
	2. draws other foot to side of supporting		
	foot and puts weight on it		
	3. same foot always leads		
	Record a "0" if child does not include all movements.		
19.	SKIPS:	LA	VAV
	Say, "Watch me skip. Now you do it." Record	os	
	a "+" if child includes all of the following move-	IL	AS
	ments:	ΛΛ	. R
	l. steps forward on one foot	IM	•
	2. hops on same foot		
	3. steps forward on opposite foot		
	4. hops on that foot		
	5. swings arms in opposition to legs		
	Record a "0" if child does not include all movements.		
•			
20.		LA	. AV
	Say, "Watch me hop three times. Now you do it."	os	. IV
	Record a "+" if child hops three consecutive times	IL	. AS
	with the same foot leaving the floor and landing,	AA	. R
	and the other remaining in the air. If the child	IM	•
	does not hop three consecutive times, record a 0,		
	1, or 2 for the number of correct consecutive hops.		



BEST WAT AVAILABLE

ST. MWTY2	ON TAPE:	LLA	AV
Say, "M	atch me walk on this tape. I put one foot in	os	IV
front c	of the other. I touch my toe on one foot	IL	AS
(point	to toe) to my heel of the other foot	AA	R
(point	to heel; so they touch, like this. I	IM	
do not	hold on to anything with my hands.		
Now, yo	ou do it." Mark a "+" if the child walks on	·	
diathe tap	e with heel and toe touching and the tape is		
covered	by foot. Mark a "0" if the child does not		
touch h	eel and toe and tape is not covered.		
	•		• .
22. 8 23, 7	THROWS AND CATCHES BALL:	LA	AV
Stand s	ix feet away from child, as marked on tape.	os	IV
Say, "]	am going to throw this ball to you, Try	IL_	AS
to cate	h it. Then throw it back to me. Try to	AA	R
hit me	here." (Point to stomach.)	IM	
(22)	Number of catches out of 5 throws.		
	(Count as a catch if ball does not hit		•
	floor. Count as a miss if ball hits		
	floor before catching or leaves child's h	ands	
	after catching.)		
(23)	Number of hits out of 5 throws.		
	(Count as a hit if ball hits or will hit		
	you between shoulders and knees, with		
	your feet remaining in position. Count a	6	
	a miss if ball does not hit between		
•	shoulders and knees or if you must move ye	our	
	feet to catch the ball.		

On completion of motor skills section say, "Let's go sit down again."



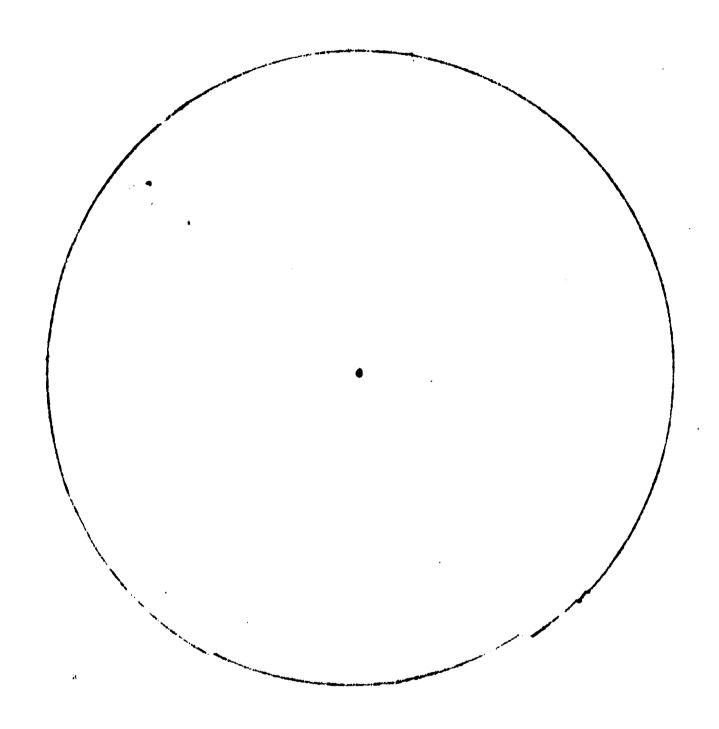
24.	POINTS TO AND NAMES PARTS O	E RODA:	L/\	_ AV		
	Say, "Point to your	" Wait 5	os	IV		
	seconds for a response. Mar	k a "+" for each	IL	AS		
	correct response. Mark a "0	" for each incorrect	AA	R		
	response, or if the child do	es not respond within	IM			
	5 seconds.					
	head	forehead				
	eyes	tongue				
	mouth	chest				
	stomach	toe				
	wrist	foot				
	knee	lips				
	Say, "What's this called?"	Point to your body parts				
	in the following order, repe					
	each time. Wait 5 seconds f					
	for each correct response and a "0" for each incorrect					
	response, or if the child do	es not respond within 5				
	seconds.					
	chin	neck				
	hair	shoulder				
. •	teeth	back				
	eyebrow	arm				
	cheek	finger				
	ankle	leg				
	elbow	thumb				
			. .	A 12		
25.			LA	^V		
	Say, "Tell me what color thi		os	IV		
	colored blocks from test mat		IL AA	AS		
	order, one at a time, repeating the above state-			R		
	ment each time. Mark a "+"		IM	 -		
	response. Mark a "0" for ea					
	or if the child does not rea					
	RED	ORANGE				
	GREEN	PURPLE				
	BLUE	BROWN				
	YELLOW	BLACK				

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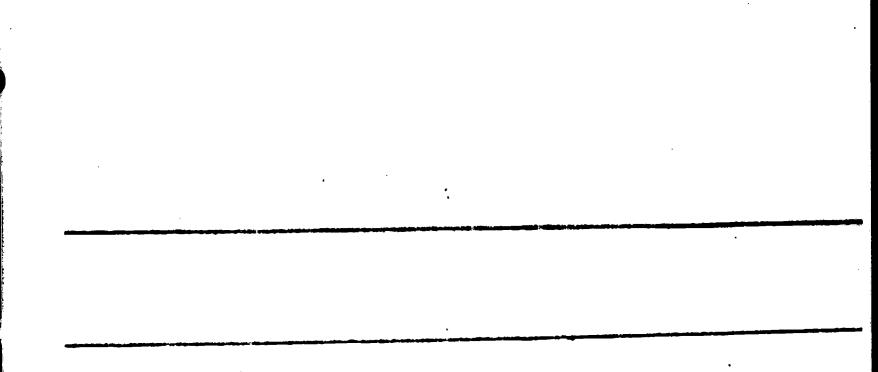
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26.	DEMONSTRATES DIRECTIONAL CONCEPTS:	LA	AV			
	Before beginning, put blocks back in the test	os	IV			
	materials packet and make sure door is open. Give	IL	AS			
	child following directions, waiting 5 seconds for	ΑΛ				
	each response. Record a "+" if child responds	IM	-			
	correctly and a "0" if child responds incorrectly					
	or does not respond within 5 seconds.					
	"Show me your right hand."					
	"Point up."					
	"Show me your left hand."					
	"Point down."					
	"Take a block out of here." (Hold up test materia	als pac	(et.)			
	"Put the block on the table."					
	"Take the block off the table."					
	"Hold the block over the table."					
	"Hold the block under the table."					
	"Put the block in here." (Hold up test materials packet.)					
	(Hold up picture of duck and stars.) "Point to the star					
	above the picture."					
	Point to the star below the picture."					
	(Hold up picture of people in line.) "Point to t	he midd	1e			
	person in line."					
	"Point to the last person in line."					
	"Walk around the table." (Child must make at least one					
	complete circle.)					
	"Walk through the door and come back." (Child mu	st walk				
	completely through the doorway.)					
27.	NAMES SHAPES:	LA	AV			
27.	Say, "What is this called?" Hold up, one at a time	0S	IV			
	in the following order, the shapes from the test	IL	_ AS_			
	materials, repeating the direction each time. Wait	AA	R			
	5 seconds for a response. Record a "+" if the child	IM				
	says the correct name within the 5 seconds. Record					
		n.4				
	a "0" if child responds incorrectly or does not respond	nu				
	a "0" if child responds incorrectly or does not responsible within 5 seconds.	iid				

28.	DRAWS A MAN:	LA	AV
	Give the child the piece of paper from the back	os	IV
	of this test and the primary size pencil from the	IL	AS
	test materials. Say, "Draw me a picture of a whole	AA	R
	person. You can draw a man, a lady, a girl or a boy."	IM	
	Put the child's name and the date on the picture.		
	Measure with stopwatch the number of minutes it takes		
	the child to draw the picture. "IME:		
29.	IMITATES THREE AND FOUR BEAT RHYTHMS:	LA	. AV
	Say, "Listen carefully while I tap on the table.	os	- IV
	Then tap the same number of times that I do." Wait	IL	AS
	five seconds for child to respond. Record a "+"	AA	
	for each correct response and a "0" for each in-	IM	-
	correct response, or no response within 5 seconds.		
	THREE TIMESFOUR TIMES		
•	ANOUTED CUTOMICALOUS ADOUT A CHORY PEAD ALOUD.	LА	AV
30.		os	IV IV
	Say, "You've done such a good job, now I'm going to read you a story." Read the child Clifford's	IL	
	Tricks from the test materials. Read slowly and	AA	 R
	clearly, using expression. Let the child look at	IM	· ·
	the pictures, but do not ask questions or point to		_
	the pictures or comment on the story while reading.		
	After finishing, put the book away and ask the		
	child the following questions. Wait five seconds	e .	
	for the child to begin to respond. Record the child's	}	
	response in his/her own words. If the child does		
	not begin to respond in 5 seconds, record "no response	"	
	and go on to the next question.		
	1. What is the big red dog's name?	_	
	2. What is one trick Clifford can do?	_	
		_	
	3. What happened to the policemen's car?	_	
	4. What does brave mean?		
	TI HILL GOOD DIGATE		
	5. How did everyone feel at the end of the story?	_ _	
0			
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ENTRY LEVEL TEST SCORE SHEET

CHILI	D'S NAMED	ATE TESTED) 	
TEST	TESTED BY SECOND OPSERVER			
SCORI	ED BY SCORING RE	LIABILITY	ВУ	
	SKILL	SCORE	2ND OB	. SCORING REL.
1,	Counts to ten			
2.	Recites alphabet			
3.	Repeats seven word sentence			
4.	Writes first name		· · · · · · · · · · · · · · · · · · ·	
5.	Arranges pictures in sequential order			
6.	Describes picture in complete sentence			
7.	Tells outcome of predictable event			-
8.	Tells number of objects in set			
9.	Names upper case letters			
10.	Names lower case letters			
11.	Names numerals			
12.	Tells initial consonant sounds of words			
13.	Cuts out circle			
14.	Holds soissors correctly			
15.	Walks			
$\frac{10.}{17.}$	Runs			
18.	Jumps			
19.	Gallops Skips			
$\frac{19}{20}$.	Hops on one foot			
$\frac{20.}{21.}$	Walks on tape			
$\frac{22}{22}$.	Catches ball			
23.	Throws ball and mits target			
24.	Points to and names body parts			
25.	Names co one			
25.	Demonstrates directional concepts			
27.	Names shapes			
?8.	Draws a person			
29.	Imitates three and four beat rhythms			
30.	Answers questions about story			
SCORE				
all the sale sale sales	TESTER OBSERVATIONS	TE	STER	2ND OB.
	Frequency of Lookary around			
2.	Frequency of out of seat			***
-	Prequency of anappropriate locale			
Li.	Frequency of aggre sive action			
5.	Frequency of inappropriate motor response			-
7.	Frequency of appropriate verbalizations			
8.	Frequency of inappropriate verbalizations			
9.	Frequency of aggressive speech Frequency of repeat directions to child			معتور والزارد والمراجعة والمراجع والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة وال
10.	Noticeable speach deficit			
ii.	Self-scimulations behavior			and the state of t
1)	Crying or whiring			and spirite in the second
Ĭ	The state of the s			وقاده وهرب شخطيط فلنتقض بالخوضيات وسنقاف فسند

ENTRY LEVEL TEDT SCORING PROTEDURES

GENERAL PROCEDURES

- 1. Record all items as fraction in decimal form. Example: If 100% of the criteria are met, record as 1.00.
- 2. Round decimals to nearest one-hundredth. Example: .625 = .63
- 3. Read carefully through scoring procedures before beginning.

SPECIFIC SCORING PROCEDURES

COUNTS TO TEN

Count number of numbers named in consecutive order.

Divide by 10.

Record decimal, or .00 for no response.

Child says, "1, 2, 3, 10." Example:

3/10 = .30

2. RECITES ALPHABET

Count number of letters named correctly in consecutive order.

Divide by 26

Record decimal, or .00 for no response.

Child says, "ABCDEFGHJKLM..." Example:

Count letters to J (8).

Divide by 26.

9/26 = .31

3. REPEATS SEVEN WORD STRTENCE

Count number of words imitated correctly.

Subtract 1 for each word added.

Subtract 1 for each word not in consecutive order.

Divide by 7.

Record deciral, or .00 for no response.

Example: Child says, "The little girl played out in snow."

Words imitated correctly = 5 (the, girl, played, in, snow)

Words added - 1

5-1 = 4

4/16 =.40

WRITES FIRST NAME 4.

Record 1.00 if child includes all of following criteria:

- a) Includes all letters of first name in order.
- First letter upper case, rest lower case. (Refer to letter model enclosed)
- On horizontal line within the box. (Parallel) c)
- d) No reversals of letters.

Record .75 if child meets 3 11 4 priteria, must include a.

Record .50 if child meets 2 of 4 criteria, must include a. Record .25 if child meets only "a" criteria (all letters in name).

Record .00 if child meets home of criteria.



- 5. ARRANGES PICTURES IN SEQUENTIAL OFDER Record 1.00 if the child has put the pictures in the order 1, 2, 3, 4 in 30 seconds. Record .00 if the pictures are not in order or if there is no response.
- 6. DESCRIBES PICTURES IN COMPLETE SENTENCE Record 1.00 if child responds in at least one complete sentence to the fourth picture in the series. The sentence must include a subject and a verb agreeing in number. Acceptable answers:
 - a) He is crying.
 - b) He hurt himself (his leg, knee).
 - c) His bike is broken.
 - He is sitting on the ground. d)
 - e) He is sad.

Record .00 for no response.

7. TELLS OUTCOME OF PREDICTABLE EVENT

Record 1.00 if the child gives an acceptable answer as judged by two independent observers. Acceptable answers:

- a)
- He's going to go home to his mother (home, to his father). His mother is going to fix his leg (knee), put a bandaid on it.
- He's going to go to the hospital.
- d) He's going to fix his leg, put a bandaid on it. Record .00 if there is no response or any other response.
- TELLS NUMBER OF OBJECTS IN SET 8. Count number of + responses

Divide by 10.

Record decimal.

Example: 3 correct responses 3/10 = .30

9. NAMES UPPER CASE LETTERS

Count number of + responses.

Divide by 2...

Record 1.00 if child achieves at least .00 (30%).

If child achieves less than .30, multiply decimal by 100 and divide by 90.

Record decimal.

Child responds correctly to 24 letters. Example:

24 divided by 20 = .92 (92%) Record 1.00 on score wheet.

Example: Child responds correctly to 18 letters.

46 divided by 20 = .62 (92%)

62 divided by 95 = .89 (79% or crituria met)

Record . 68 on score sheet.

10. NAMES LOWER CASE LETTERS Use same procedure at for upper case letters. 11. NAMES NUMERALS

Count number of + responses.

. Divide by 10 and record decimal.

Example: 8 connect responses

8/10 = .30

Record .80 on score sheet.

12. TELLS INITIAL CONSONANT SOUND OF WORD

Count number of correct responses.

If child achieves at least 9 correct responses, record 1.00. If child achieves less than 9 correct responses, divide number correct by 9 and record decimal.

Example: 6 correct responses

6/9 = .67

Record . 87 on score sheet.

13. CUTS OUT CIRCLE

Place circle over circle in this packet, matching centers. Score .00 if any white shows beyond child's cutting line. If wide color line shows beyond child's cutting line,

record 1.00.

HOLDS SCISSORS CORRECTLY

Record 1.00 on score sheet if a + is recorded on test.

Record .00 if 0 is recorded on test.

15-19. WALKS, RUNS, JUMPS, GALLOPS, SKIPS

Record 1.00 for each item if + is recorded on test.

Record .00 if 0 is recorded on test.

HOPS ON ONE FOOT 20.

Record 1.00 if + is recorded on test or if child hopped at

least 3 consecutive times.

Record .67 if child hopped 2 consecutive times.

Record .33 if child hopped only once.
Record .00 if child did not hop correctly even once.

21. WALKS ON TAPE

Score 1.00 if + is recorded on test.

Score .00 if 0 is recorded on test.

22. CATCHES BALL

Score 1.00 if child caught at least 4 of 5 throws.

Score .75 if child caught 3 throws.

Score .50 if child caught ? throws.

Score .25 if child caught 1 throw.

Score .00 if child caught no throws.

THROWS BALL AND HITS TARGET (PERSON) 23.

Score 1.00 if child made 4 or 5 hits.

Score .75 if child made 3 hits.

Score .50 if child made ? hits.

Score .25 if child made 1 hit.

Score .00 if child made no hits.



24. NAMES BODY PARTS

Count number of + responses for both sections.

Divide by 26.

If decimal is .80 or above, record 1.00 on score sheet.

If decimal is below .80, multiply by 100 and divide by 80.

Record this decimal on score sheet.

Child achieved 24 + responses. Example:

24/26 = .92

Record 1.00 on score sheet.

Child achieved 13 + responses. Example:

> 13/26 = .50 $.50 \times 100 = 50$ 50/80 = .625

Record .63 on score sheet.

25. NAMES COLORS

Count number of + responses.

Divide by 8.

Record decimal on score sheet.

Example: Child achieved 4 + responses.

4/8 = .50

Record .50 On score sheet.

26. DEMONSTRATES DIRECTIONAL CONCEPTS

Count number of + responses and divide by 17.

If decimal is .80 or above, record 1.00 on score sheet.

If decimal is less than .80, multiply by 100 and divide by 80.

Record that decimal on score sheet. Example: Child achieves 12 + responses.

12/17 = .71

 $.71 \times 100 = 71$

71/30 = .89

Fecord .89 on score sheet.

27. NAMES SHAPES

Count number of + responses.

Record 1.00 if child achieves 3 or 4 + responses.

Record .67 if child achieves 2 correct responses.

Record .30 if child achieves 1 correct response.

Record .00 if child achieve no correct responses.

28. DRAWS A MAN

Record 1.00 if child includes the following body parts: Head eyes nose mouth hair body arms legs hands(or fingers)

feet(or toes)

Record .90 if child includes 9 of the above body parts.

Record .80 if child includes 8 of the above body parts.

Record .70 if child includes 7 of the above body parts.

Record .60 if child includes 6 of the above body parts.

Record .50 if child includes 5 of the above body parts.

Record .40 if child includes 4 if the above body parts.

Record .30 if child includes 3 of the above body parts.

Record .20 if child includes 2 of the above body parts.
Record .10 if child includes 1 of the above body parts.
Record .00 if child includes none of the above body parts.

No credit is given for additional body parts.



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- 29. IMITATES THREE AND FOUR BEAT RHYTHMS
 Record 1.00 if child imitates both rhythms correctly.
 Record .50 if child imitates one rhythm correctly.
 Record .00 if child imitates no rhythms correctly.
- 30. ANSWERS QUESTIONS ABOUT STORY
 Record 1.00 if child gives 4 or 5 acceptable answers.
 Record .75 if child gives 3 acceptable answers.
 Record .50 if child gives 2 acceptable answers.
 Record .25 if child gives 1 acceptable answer.
 Record .00 if child gives no acceptable answers.

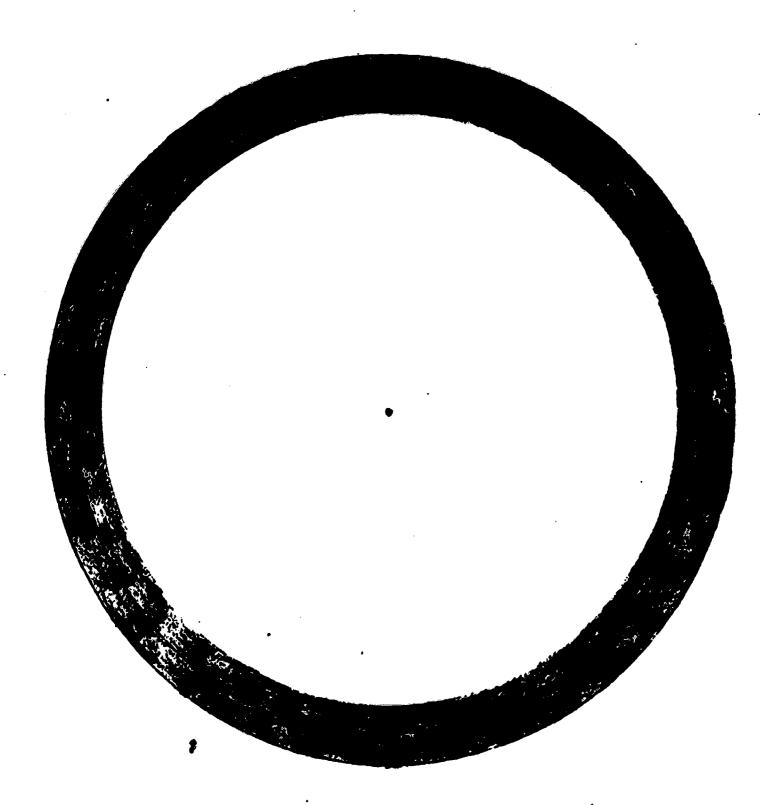
Acceptable answers:

- 1. Clifford
- 2. Get newspaper, get newspaper stand Play dead, fall down and play dead Sprak, bark loudly Roll over, smashed car Jumped in water, saved girl
- Clifford rolled over on it.
 It got smashed.
 Mashed, crushed, wrecked, crashed.
- 4. Saving the girl, people
 Like the dog, like Clifford, like Bruno
 Courageous
 Jumping in water to save someone
 Names any brave act
 Like a fireman, policeman
- 5. Happy
 They all liked each other.
 They were smiling.
 They loved Clifford.

TO OBTAIN ENTRY LEVEL TEST SCORE
Add decimals for the 30 items together.
Divide number by 30.
Multiply by 100 to obtain percent of test achieved.

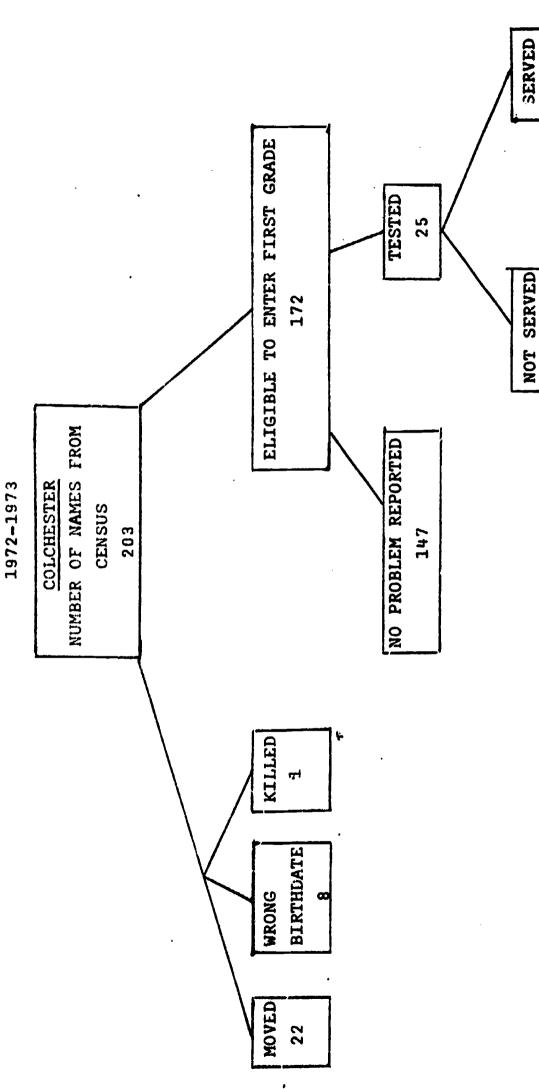


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Letter Model

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SERVICE IN COLCHESTER

Child	Test Score	Problem Areas Checked by Parents	Target Areas for Initial Service
1	31%	Social Language	Alphabet Letters
2	35%	Language	Alphabet Letters Counting
3	42%	Language	Number concepts Counting
4	43%	Language Social	Alphabet Letters Consonant Sounds
5	47%	Motor	Writing Name Alphabet Letters
6	51%	Language	Alphabet Letters Colors Number concepts

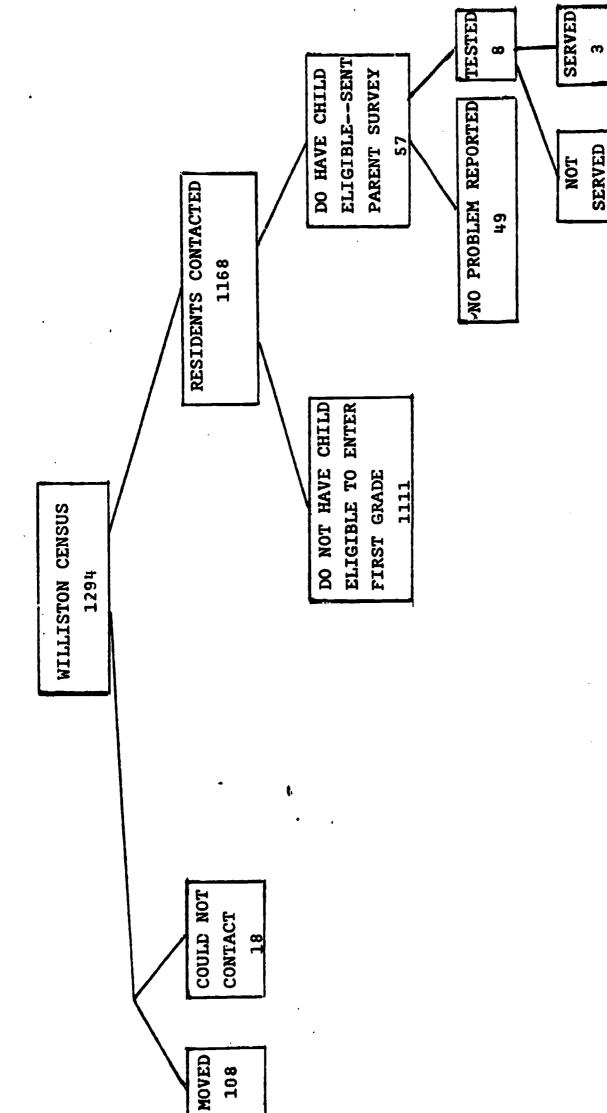


SERVICE IN WILLISTON

Child	Test Score	Problem Areas Checked by Parents	Target Areas for Initial Service
1 .	††₽	Language	Alphabet Letters Counting Number Concepts
2	49%	Language Social	Alphabet Letters Consonant Sounds
3	65%	Language Motor	Alphabet Letters



1972-1973





Appendix iii

MINIMUM OBJECTIVES
FOR
ENTERING FIRST GRADERS



PARTICIPATION SKILLS

TANTICITATION DIVIDE	<u> </u>	
When in a group	the child participates in a directed activity	for at least 80% of a 20 minute interval.
Given a prompt	the child attends to an independent activity	for at least 80% of a 10 minute interval.
Given a two-step direction	the child begins to follow the direction	within 5 seconds.
When in a group	the child volunteers verbal responses	at least three times per week.
Given two tasks to complete	the child completes one task	before beginning the next.
Given a group assigned task	the child works with other children to complete the assigned task	in a cooperative man- ner.
SOCIAL SKILLS		
When spoken to	the child responds verbally	on 100% of the occasions.
When spoken to	the child responds with eye contact	on at least 80% of the occasions.
When in a group	the child interrupts conversation or the ongoing activity	less than two times during a 20 minute interval.
During any time of the day	the child initiates aggressive speech	on no occasions.
During any time of the day	the child initiates aggressive actions	on no occasions.
During any time of the day when there is no physical reason	the child cries or whines	on no occasions.
During any time of the day	the child engages in self-stimulation be-haviors	without precluding attention to the ongoing activity.



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SPUF-CARE SKILLS

the child demonstrates every time. When necessary independent proper use

of the toilet

the child dresses him-When necessary

self

including buttoning, snapping, zipping, and tying but excluding difficult zippers and bows he cannot

During a meal or snack time

the child feeds himself and uses correctly on every occasion.

utensils

LANGUAGE SKILLS

Given a cue the child recites in consecutive order the alphabet 100% correctly.

the child counts from within 30 seconds. Given a cue

one to ten

After listening to a the child imitates seven word sentence

the sentence

100% correctly.

Given a pencil, a piece of paper with a horizontal line on it, and a cue

the child writes his first name

on the horizontal line including all the letters of his first name, with the first letter upper case and the rest lower case, with no reversals of letters.

Given a series of four pictures and one complete sentence about the first 3 pictures and a prompt

the child says one complete sentence about the fourth picture

with at least a subject and verb agreeing in number, as judged acceptable by at least 2 independent observers.

Given a sequence of pictures leading to a predictable event and one complete sentence about each picture and a cue

the child tells the probable outcome

so that it is judged acceptable by at least 2 independent observers.

Given a series of four pictures in non-systematic order and a cue

the child arranges the pictures in order

within 30 seconds.



Given any set of the child tells how 100% correctly. objects not exceeding many objects are in ten the set the child names within 3 seconds for Given printed upper case alphabet letters each letter at least 90% of the in non-systematic letters. order within 3 seconds for Given printed lower the child names case alphabet letters at least 90% of the each letter in non-systematic order letters. Given printed numbers the child names within 3 seconds, 1-10 each number 100% correctly. the child tells the for at least 9 of the Given a spoken word 19 words. and a cue initial consonant sound of the word Given five questions at least 80% correct the child answers the related to a story as judged by at least questions read aloud 2 independent observers. MOTOR SKILLS within a ½" margin Given a pair of the child cuts scissors and a out the circle of error. circle outlined on a piece of paper the child holds so that the thumb is Given a pair of

Given a cue and a model

scissors

the child walks

the scissors

for a distance of 10 feet so that he pushes off with the ball and toes of one foot, swings knee and ankle forward, transfers weight to ball and toe of foot swinging forward, alternates right and left without breaking sequence, swings arms in opposition to legs, and points toes straight ahead.

and the index or index and middle fingers are in the second hole.

in the top hole



Given a cue and a model	the child runs	for a distance of 10 feet so that he pushes off with ball and toes of one foot, raises knee of foot moving forward, both feet leave ground, alternates right and left without breaking sequence, swings arms in opposition to legs, and points toes straight ahead.
Given a cue and a model	the child jumps on two feet	for a distance of 10 feet so that both feet leave the floor and land simultaneously.
Given a cuc and a model	the child gal- lops	for a distance of 10 feet so that he steps forward on one foot, draws the other foot to side of supporting foot and puts weight on it, and the same foot always leads.
Given a cue and a model	the child skips	for a distance of 10 feet so that he steps forward one one foot, hops on same foot, steps forward on opposite foot, hops on that foot, swings arms in opposition to legs, and does not break sequence.
Given a cue and a model	the child hops on one foot	three consecutive times with the same foot leaving the ground and landing, and the other foot remaining in the air.
Given a cue and a model	the child walks on a one inch wide tape	for a distance of 10 feet with the heel of one foot touching the toe of the other foot and so that the tape is covered by the feet.



When thrown an eight inch ball from a distance of six feet

the child catches the ball

so that it does not hit the floor before or after it reaches his hands, at least 80% of the throws.

Given an eight inch ball, a target person six feet away and a cue

the child throws the ball

so that it hits or will hit the target person between the shoulders and knees without the target person extending his arms to either side to catch the ball, reaching forward or bending down to catch the ball, at least 80% of the tries.

PERCEPTION SKILLS

Given a cue

the child names and points to each of his body parts (head, eyes, nose, mouth, chin, forehead, hair, teeth, tongue, lips, eyebrow, cheek, neck, shoulder, chest, stomach, back, arm, elbow, wrist, finger, thumb, leg, knee, ankle, foot, toe)

within 5 seconds for at least 80% of the body parts listed.

Given a cue

the child recognizes and names each of the eight basic colors (red, blue, green, yellow, orange, purple, brown, black) within 5 seconds for 100% of the colors listed.



Given a cue

the child demonstrates directional concepts (right/left, up/down, over/under, on/ off, above/below, in/ out, around/through, first/middle,/last)

within 5 seconds for at least 80% of the concepts listed.

Given a cue

the child recognizes and names each of four basic shapes (circle, square, triangle, rectangle) within 5 seconds for at least 3 of the 4 shapes.

Given a blank piece of paper, a pencil, and a cue

the child draws a person

including head, eyes, nose, mouth, hair, body, arms, legs, hands, and feet.

Given a three and a four beat rhythm pattern

the child imitates each pattern

within 5 seconds 100% correctly.



Appendix iv



CHILD'S NAME	DATE
ADMINISTERED BY	START TIME
	FINISH TIME

GENERAL PROCEDURES FOR SOCIAL AND SELF-CARE INVENTORY

- 1. Check the test packet before going out to observe. Materials included are:
 - a) Lotto game
 - b) Book: The Witch Next Door
 - c) Stopwatches (for you and observer)
 - d) Two decks of cards, one red and one blue
 - e) Ten blank sheets of paper
 - f) Two boxes of crayons
 - g) Play dough
 - h) Shirt (with buttons, snap)
 - i) Jacket (with zipper)
 - j) Shoe (with laces)
 - k) Fork, knife, spoon, bowl, plate
 - 1) Two large pieces of construction paper
- 2. Remember to put the child's name and date on the cover sheet.
- 3. Give all directions slowly and exactly as they appear on the inventory. Speak clearly.
- 4. Give no other prompts unless they are indicated in the procedures on the inventory. Repeat the directions if the child says "what" or "huh".
- 5. Praise the child for following the procedures correctly or for completing tasks. Praise can be given after any item is finished. Ignore all aggressive speech or inappropriate verbalizations. For transition between items and to retain the child's attention, it is appropriate to say "Now" or "Are you ready" or say the child's name.



- 6. Use the stopwatch to measure length of time the child attends during items 2 and 6.
- 7. In the right-hand margin, record the occurance of inappropriate behaviors such as interrupting ongoing conversation or activity, use of aggressive speech or actions, crying or whining without physical reason, and self-stimulating behaviors (see below).

DEFINITIONS AND OBSERVATION SHEET FOR OBSERVER

1.	Did the child interrupt conversation or the ongoing activities more than two times when in a group?
2.	Did the child initiate aggressive speech during the session (e.g. swearing, threatening speech)?
3.	Did the child initiate aggressive actions toward you or the materials (e.g. hit you, damage materials by throwing, tearing, marking)?
4.	Did the child cry or whine for no physical reason before, during or after the session?
5.	Did the child engage in any self-stimulating behaviors

(e.g. thumbsucking, rocking) to such an extent that attention

to other activities was precluded? _____





ITEM 1: RESPONDS VERBALLY AND WITH EYE CONTACT

OBSERVATIONS

Ask the child the following questions and record the child's verbal response or "no response" if child does not speak. Record a "+" if child has eye contact with you (looks at you) during or after you speak.

"What's your name?"	
	EYE CONTACT
"How old are you?"	
	EYT CONTACT
"Do you go to school?	11
	EYE CONTACT
"Do you have any brot	hers or sisters?"
	EYE CONTACT
"What's your favorite	thing to play with?
	EYE CONTACT

ITEM 2: PARTICIPATES IN A DIRECTED ACTIVITY



Measure the child's attending (face oriented OBSERVATIONS to task or partner) by running a stopwatch when the child is attending and stopping the stopwatch when the child is not autending. When the twenty minutes are up, record stop
time and the number of minutes accumulated
on the stopwatch. If either child completes
a board, say " has filled his board."
Give the child another board. Say "Keep playing
the game."
start time # minutes attending
finish time% attending
FOLLOWS TWO-STEP DIRECTION
Place book to be read (ITEM 4) on a chair
or table across the room while children are
playing gam When game is over say, "
<pre></pre>
cards back in the box, and (tested child's name),
after you have finished putting all the cards
away, bring me the look over there." (You may
specify where the look is.) When the child
completes the second task say, "Thank you."
1
Managed a Hell Server and a server and a server

	2.4.0	Transfer Company		Cus	140
one within five second	S.	Record	a "	0"	if
child does not initiat	e ta	sk with	nin	fiv	'e
seconds (requires extr	a pr	ompt).			
 Record a "+" If child	comp	letes	task	on	ie
before beginning task	two.	Recor	rd a	"0	28
of shild does not					



ITEM 3:

ITEM 4: VOLUNTEERS VERBAL RESPONSE

OBSERVATIONS

Read The Witch Next Door to the two children.

Read slowly and clearly. Do not ask any
questions or make any comments during the story
except:

- A) after reading page 8, pause 3 seconds, then say, "What funny looking pets." Wait 3 seconds and continue reading.
- B) after reading page 15, pause 3 seconds, say, "What a funny way to sleep." Wait 3 seconds and continue reading.
- C) after reading page 26, pause 3 seconds, say, "I guess she's a good witch." Wait 3 seconds and continue reading.

Record a "+" if child volunteers at least one verbal response related to the story during or immediately after reading.

ITEM 5: COMPLETES COOPERATIVE TASK

Scatter two decks of cards over the floor and say, "I want both of you to sort out these cards into two piles. Put the blue cards here and the red cards here." Begin the task by placing one red card and one blue card in separate piles. Give the children a maximum of 3 minutes to complete the task.

Record a "+" if the child collects at least ten cards and stacks them. Record a "0" if child does not stack at least 10 cards.



ITEM 6: ATTENDS TO INDEPENDENT ACTIVITY

OBSERVATIONS

Place the following materials on the table where the children will be seated:

10 sheets of paper 2 boxes crayons playdough

Say, "Each of you may play with the pluydough and the cray as and paper by yourself until I tell you to stop. Use the large piece of paper if you use the playdough. Please do not talk to each other." Record start time below. Measure the child's attending (face oriented to task, not partner) by running a stopwatch when the child is attending and stopping the stopwatch when the child is not attending. When ten minutes are up, record stop time below and the number of minutes accumulated on the stopwatch.

Start time
Stop time
Minutes attending
% Attending



SELF-CARE INVENTORY

ITEM 1:	DRESSES SELF
	Give the child the article of clothing indicated
	below and ask him to do the following. Record
	a "+" or "0" for the child's response.
	Please put on this shirt. Thank you.
	Please button the shirt. Thank you.
	Please snap the snap on the shirt. Thank you.
	Please unsnap the snap on the shirt. Thank you.
	Please unbutton the shirt. Thank you.
	Please take off the shirt. Thank you.
	Please put on this jacket. Thank you.
	Please zip the zipper. Thank you.
	Please unzip the zipper. Thank you.
	Please take off the jacket. Thank you.
	Please put on this shoe. Thank you.
	Please tie the laces on the shoe. Thank you.
	Please untie the laces. Thank you.
	Please take off the shoe. Thank you.
ITEM 2:	FEEDS SELF
	Set a place at the table for the child as if he were
	going to have dinner. Put a lump of playdough on
	the plate and say to the child, "Pretend this is a
	piece of meat. Use your knife and fork to cut the meat."
	Record a "+" if the child holds on to the handle
	of the knife and cuts through playdough with
	sharp side of blade cutting through to bottom of
	plate. Record a "0" if child does not use knife

correctly.



Say, "Now use your fork and make believe you are going to eat the meat."

Record a "+" if child holds on to handle.

Record a "0" if child does not hold fork correctly.

Replace the plate with the bowl and say, "Pretend there is soup in this bowl. Pick up the spoon and make believe you are going to taste the soup."

Record a "+" if child holds on to the handle of spoon with the convex side parallel to and facing the table. Record a "0" if the child does not hold the spoon correctly.



SOCIAL AND SELF-CARE INVENTORY SCORE SHEET

DATE DATE		TESTED			
TEST	TED BY	SECOND OBSERVER			
		SCORING RELIABILITY BY			
	SOCIAL SKILLS		SCORE	2ND OB.	SCORING REL.
1.	Responds verbally		-		the street
2.	Responds with eye contact				
3.	Participates in directed act	tivity			
4.					
5.	Completes one task before be	eginning next			
6.	Volunteers verbal response				
7. Works cooperatively to complete tas: 8. Attends to independent activity 9. Interrupts ongoing activity		lete task			
		vity			
10. Aggressive speech					
11. Aggressive actions					
12. Cries or whines					
13.	Engages in self-stimulation	behaviors			
SCOR	RE				
	SELF-CARE SKILLS				
1.	Dresses Self				
2.	Feeds Self				
SCOR	E				



Appendix v MINIMUM OBJECTIVES SEQUENCED FOR THE KINDERGARTEN YEAR



Social, Motor, Self-Care Skills			
	1 When in a group	the child partici- pates in a directed activity	for at least 80% of a 20 minute interval.
*:	1.0 Given 2 or more children, a card game or board game with rules (e.g., Old Maid, Candyland) and adult proximity with no contingent attention	the child plays the game with the other child(ren)	according to the rules of the game for at least 80% of a 20 minute interval without aggressive actions/verbalizations or emotional outbursts (e.g., crying, screaming) or self-stimulation behaviors which preclude attention to the game.
	Given 2 or more children, a card game or board game with rules (e.g., Old Haid, Candyland) and with adult near table and contingent attention only at end of interval	the child plays the game with the other child(ren)	according to the rules of the game for at leas 80% of a 20 minute interval without aggressive actions/verbalizations or emotional outbursts (e.g., crying, screaming) or self-stimulation behav-

ven 2 or more children, ... card game or board game with rules (e.g., old Maid, Candyland) and with adult near table and contingent attention on intermittent schedule

the child plays the game with the other child(ren)

according to the rules of the game for at least 80% of a 20 minute interval without aggressive actions/ verbalizations or emotional outbursts (e.g., crying, screaming) or self-stimulation behaviors which preclude attention to the game.

iors which preclude attention to the game.

* Poxed objectives correspond to the minimum objectives for first grade entry, terminal objectives for kindergarten.

ERIC Numbers preceding each enabling objective pertain to the grade and month of the school year when the objective should be achieved.

K.4
liven 2 or more children,
a card game or board
game with rules (e.g.,
Old Maid, Candyland) and
with adult near table
and contingent attention on an intermittent
schedule

the child plays the game with the other child(ren)

according to the rules of the game for at least 80% of a 15 minute interval without aggressive actions/verbalizations or emotional outbursts (e.g., crying, screaming) or self-stimulation behaviors which preclude attention to the game.

K.3
Given 2 or more children,
a card game or board
game with rules (e.g.,
Old Maid, Candyland) and
with adult seated at
table and contingent attention on a continuous
schedule

the child plays the game with the other child(ren)

according to the rules of the game for at least 80% of a 15 minute interval without aggressive actions/verbalizations or emotional outbursts (e.g., crying, screaming) or self-stimulation behaviors which preclude attention to the game.

K.2
Given 2 or more children,
a card game or board
game with rules (e.g.,
Old Maid, Candyland) and
with adult seated at table
and contingent attention
on an intermittent schedule

the child plays the game with the other child(ren)

according to the rules of the game for at least 80% of a 10 minute interval without aggressive actions/verbalizations or emotional outbursts (e.g., crying, screaming) or self-stimulation behaviors which preclude attention to the game.

K.0
Given 2 or more children,
a card game or board
game with rules (e.g.,
Old Maid, Candyland) and
with adult seated at table
and contingent attention
on a continuous schedule

the child plays the game with the other child(ren)

according to the rules of the game for at least 80% of a 10 minute interval without aggressive actions/verbalizations or emotional outbursts (e.g., crying, screaming) or self-stimulation behaviors which preclude attention to the game.

ERIC

Full Text Provided by ERIC

the child attends to an independent activity

for at least 80% of a 10 minute interval.

Given a work table, an adult assigned activity, play materials (e.g., puzzle, clay, drawing materials, books) and no occasions of adult attention contingent upon attending and adult supervision

the child attends to the material

according to the directions for at least 80% of a 10 minute interval and such that progress is made toward completion of the assigned activity.

K.8
Given a work table, an adult assigned activity, play materials (e.g., puzzle, clay, drawing materials, books) with adult near table and contingent attention only at end of interval

the child attends to the material

according to the directions for at least 80% of a 10 minute interval and such that progress is made toward completion of the assigned activity.

K.6
Given a work table, an adult assigned activity, play materials (e.g., puzzle, clay, drawing materials, books) with adult near table and contingent attention on an intermittent schedule

the child attends to the material according to the directions for at least 80% of a 10 minute interval and such that progress is made toward completion of the assigned activity.

K.4
Given a work table, an adult assigned activity, play materials (e.g., puzzle, clay, drawing materials, books) with adult near table and contingent attention on an intermittent schedule

the child attends to the material

according to the directions for at least 80% of a 10 minute interval and such that progress is made toward completion of the assigned activity.

K.3
Given a work table, an adult assigned activity, play materials (e.g., puzzle, clay, drawing materials, books) with adult near table and contingent attention on in intermittent schedule

the child attends to the material

according to the directions for at least 80% of a 5 minute interval and such that progress is made toward completion of the assigned activity.

K.2
Given a work table, an
dult assigned activicy, play materials (e.g.,
puzzle, clay, drawing
materials, books) with
adult seated at table and
contingent attention on
an intermittent schedule

٠,

the child attends to the material

according to the directions for at least 80% of a 5 minute interval and such that progress is made toward completion of the assigned activity.

K.0
Given a work table, an adult assigned activity, play materials (e.g., puzzle, clay, drawing materials, books) with adult seated at table and contingent attention on a continuous schedule

the child attends to the material

according to the directions for at least 80% of a 5 minute interval and such that progress is made toward completion of the assigned activity.

3 Given a two-step direction

the child begins to follow the direction

within 5 seconds.

Given the direction to leave the work area, find a specific item (e.g., a book, article of clothing, etc.) and bring it to the work area with the adult staying at work area and one occasion of contingent attention (Thank you!) the child leaves the area to begin the task

within 5 seconds and such that the task is completed within one minute.

K.8 & K.6
Given the direction to
leave the work area, find
a specific item (e.g., a
book, article of clothing,
etc.) and bring it to the
work area with adult not
accompanying the child and
contingent attention on an
intermittent schedule

the child leaves the area to begin the task

within 5 seconds and such that the task is completed within one minute.

K.4
Given the direction to
leave the work area, find
a specific item (e.g., a
book, article of clothing,
etc.) and bring it to the
work area with adult accompanying the child for t of
the distance and contingent
attention on an intermittent schedule

ERIC

the child leaves the area to begin the task

within 5 seconds and such that the task is completed within one minute.

Given the direction to leave the work area, find a specific item (eg, a book, article of clothing, etc.) and bring it to the work area with adult accompanying the child and contingent attention on an intermittent schedule

the child leaves the area to begin the task

within 5 seconds and such that the task is completed within one minute.

K
Given the direction to
leave the work area, find
a specific item (e.g., a
book, article of clothing,
etc.) and bring it to the
work area with adult accompanying the child and contingent attention on a
continuous schedule

the child leaves the area to begin the task

within 5 seconds and such that the task is completed within one minute.

4 When in a group

the child volunteers verbal responses

at least one time during each session.

Given 2 or more children an adult, a story read by an adult, a discussion of the story with no adult prompt and no contingent attention the child volunteers verbal responses

at least once during the session such that the response is related to the story content and/or the discussion.

K.6, K.8
Given 2 or more children, an adult, a story
read by an adult, a discussion of the story with
no adult prompt and with
contingent attention

the child volunteers verbal responses

at least once during the session such that the response is related to the story content and/or the discussion.

K, K.2, K.4
Given 2 or more children, an adult, a story
read by an adult, a discussion of the story with
adult prompt and contingent attention

the child volunteers verbal responses

at least once during .
the session such that
the response is related to the story content and/or the discussion.

ERIC"

5 Given two tasks to complete	the child completes one task	before beginning the next.
Given directions to complete two tasks (e.g., completing a puzzle and constructing a clay figure) in an order such that the least preferred task is to be completed first with an adult in room and with no contingent attention	the child completes the least preferred task	before beginning the next task.
K.6, K.8 Given directions to complete two tasks (e.g., completing a puzzle and constructing a clay figure) in an order such that the least preferred task is to be completed first with adult in room and with contingent attention on an intermittent schedule	the child completes the least preferred task	before beginning the next task.
K.2, K.4 Given directions to complete two tasks (e.g., completing a puzzle and constructing a clay figure) in an order such that the least preferred task is to be completed first with adult seated beside child and with contingent attention on an intermittent schedule	the child completes the least preferred task	before beginning the next task.
K Given directions to complete two tasks (e.g., completing a puzzle and constructing a clay fig- ure) in an order such that the least preferred task is to be completed first with adult seated beside child and with contingent attention on continuous schedule	the child completes the least preferred task	before beginning the next task.



6 Given a group assigned task

the child works with other children to complete the assigned task in a cooperative manner.

1.0 Given two or more children and directions to
complete a task (e.g.,
Pick up two scrambled decks
of cards and place in two
separate piles with rumbered and face sides down.)
with adult in room and with
no contingent attention

the child works with other children to complete the assigned task such that each child shares in completion of the task and there are no aggressive actions /verbalizations or emotional outbursts (e.g., crying, screaming) or self-stimulation behaviors which preclude attention to the game.

K.6, K.8
Given two or more children and directions to
complete a task (e.g.,
Pick up two scrambled decks
of cards and place in two
separate piles with numbered and face sides down.)
with adult in room and with
contingent attention on
an intermittent schedule

the child works with other children to complete the assigned task such that each child shares in completion of the task and there are no aggressive actions/verbalizations or emotional outbursts (e.g., crying, screaming) or self-stimulation behaviors which preclude attention to the game.

K.2, K.4
Given two or more children and directions to
complete a task (e.g.,
Pick up two scrambled decks
of cards and place in two
separate piles with numbered and face sides down.)
with adult beside child
and with contingent attention on an intermittent schedule

the child works with other children to complete the assigned task such that each child shares in completion of the task and there are no aggressive actions/verbalizations or emotional outbursts (e.g., crying, screaming) or self-stimulation behaviors which preclude attention to the game.

Given two or more children and directions to
complete a task (e.g.,
Pick up two scrambled decks
of cards and place in two
separate piles with numbered and face sides down.)
with adult beside child
nd with contingent atention on a continuous
schedule

the child works with other children to complete the assigned task

such that each child shares in completion of the task and there are no aggressive actions/verbalizations or emotional outbursts (e.g., crying, screaming) or self-stimulation behaviors which preclude attention to the game.

ERIC

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7 & 8 When spoken to	the child responds verbally and with eye contact	on 100% of the occasions.
K.8 Given the questions "what is your name?" "Where do you live?" "What is your telephone number?"	the child says his name, street address, town and telephone number and has eye contact	on every occasion.
K.6 Given the questions "What is your name?" "Where do you live:" "What is your telephone number?" and contingent attention on an intermittent schedule	the child says his name, street address, town and telephone number and has eye contact	on every occasion.
K.4 Given the questions "What is your name?" "Where do you live?" "What is your telephone number?" and contingent attention on a continuous schedule	the child says his name, street address, town and telephone number and has eye contact	on every occasion.
K.2		•
Given the questions "Do you go to school?" or "Do you have any brothers or sisters?" and contingent attention	the child says yes or no and has eye contact	on every occasion.
<pre>K.l Given a greeting by an adult and contingent attention</pre>	the child says "Hello or its equivalent and has eye contact	on every occasion.
K Given the questions "Do you go to school?" or "Do you have any brothers or sisters?" and contingent attention	the child nods his head to indicate yes or no and has eye contact	on every occasion.



3	When	in	a	group
---	------	----	---	-------

the child interrupts the discussion

no more than two times during the session.

Given 2 or more children, an adult, a story read by an adult, a discussion of the story with no adult prompt and no contingent attention for volunteering responses

the child interrupts the discussion

Fewer than two times during the session such that the interruption is not related to the story content and/or the discussion.

K.6, K.8
Given 2 or more children,
an adult, a story read
by an adult, a discussion of the story with
no adult prompt and with
contingent attention for
volunteering responses

the child interrupts the discussion

fewer than two times during the session such that the interruption is not related to the story content and/or the discussion.

K, K.2, K.4

Given 2 or more children, an adult, a story read by an adult, a discussion of the story with adult prompt and contingent attention for volunteering responses

the child interrupts the discussion

fewer than two times during the session such that the interruption is not related to the story content and/or the discussion.

10 During any time of the day

the child initiates aggressive speech

on no occasions.

Included in criteria for #6 and #1.

11 During any time of the day

the child initiates aggressive actions

on no occasions.

Included in criteria for #6 and #1.



12 During any time of the child cries or on no occasions. the day when there is no physical reason

whines

Included in criteria for #6 and #1.

13 During any time of the day

the child engages in self-stimulation behaviors

without precluding attention to the ongoing activity.

Included in criteria for #6 and #1.

14

Given the child's need to urinate or defecate

the child uses the toilet

every time and without assistance with clothing such that there are no occasions of wetting or soiling and clothes are arranged and secured properly.

K.6, K.8 Given the child's need to urinate or defecate and one occasion of contingent attention

the child uses the toilet

every time and without assistance with clothing such that there are no occasions of wetting or soiling and clothes are arranged and secured properly.

K.2, K.4 Given the child's need to urinate or defecate and adult proximity and contingent attention on an intermittent schedule

the child uses the toilet

every time and without assistance with clothing such that there are no occasions of wetting or soiling and clothes are arranged and secured properly.



K			
		nild's	
		or defe	
		roximit	
conti	ngent (attenti	on on
a con	tinuou	s sched	lule

the child uses the toilet

every time and without assistance with clothing such that there are no occasions of wetting or soiling and clothes are arranged and secured properly.

the child dresses including buttoning, snapping, zipping, and typing but excluding difficult zippers and bows he cannot see.

Given clothing (coat, boots, hat, mittens, shoes, sweater)

the child puts on and takes off clothing and puts clothing away such that buttons, snaps, zippers and ties are secured when clothes are put on and clothes are in proper place when pu away.

K.6, K.8
Given clothing (coat, boots, hat, mittens, shoes, sweater) and one occasion of contingent attention

the child puts on and takes off clothing and puts clothing away such that buttons, snaps, zippers and ties are secured when clothes are put on and clothes are in proper place when put away.

K.2, K.4
Given clothing (coat, boots, hat, mittens, shoes, sweater) and adult proximity and contingent attention on an intermittent schedule

the child puts on and takes off clothing and puts clothing away such that buttons, snaps, zippers and ties are secured when clothes are put on and clothes are in proper place when put away.

K
Given clothing (coat, boots, hat, mittens, shoes, sweater) and adult proximity and contingent attention on a continuous schedule

the child puts on and takes off clothing and puts clothing away such that buttons, snaps, zippers and ties are secured when clothes are put on and clothes are in proper place when put away.



16 During a meal or snack time

the child feeds himself and uses utensils

correctly on every occasion.

1.0 Given food and a table setting including a fork, knife, spoon, plate bowl, glass and contingent attention on an intermittent schedule

the child feeds himself

using the given utensils correctly (e.g., penholder grasp for fork and spoon, knife and fork for cutting) with spilling of food on no more than one occasion every three meals.

K.6, K.8
Given food and a table
setting including a
fork, knife, spoon, plate,
bowl, glass and contingent attention on an intermittent schedule
(and retrogressive chaining procedures when
necessary)

the child feeds himself

using the given utensils correctly (e.g., penholder grasp for fork and spoon, knife and fork for cutting) with spilling of food on no more than one occasion every other meal.

K, K.2, K.4
Given food and a table
setting including a
fork, knife, spoon, plate,
bowl, glass and contingent attention on an intermittent schedule
(and retrogressive chaining procedures when
necessary)

the child feeds himself

using the given utensils correctly (e.g., penholder grasp for fork and spoon, knife and fork for cutting) with spilling of food on no more than one occasion every meal.

17 Given a pair of scissors and a circle outlined on a piece of paper

the child cuts out the circle

within a ½" margin of error.

1.0 Given a pair of blunt ended scissors and a 6" diameter circle outlined on an 8½" x 11" paper and one occasion of contingent praise

the child cuts out the circle within a %" margin of error and the scissors are held such that the thumb is in the upper hole and the index or index and middle fingers are in the lower hole.



K.6, K.8
Given a pair of blunt
ended scissors and a 6"
diameter circle outlined on an 8½" x 11"
paper and with intermittent contingent
praise, modeling and
chaining as necessary

the child cuts out the circle

within a %" margin of error and the scissors are held such that the thumb is in the upper hole and the index or index and middle fingers are in the lower hole.

K.2, K.4
Given a pair of blunt
ended scissors and an
arc bisecting an 8½" x
11" paper and with intermittent contingent
praise, modeling and
chaining as necessary

the child cuts along the arc

within a ½" margin of error and the scissors are held such that the thumb is in the upper hole and the index or index and middle fingers are in the lower hole.

K
Given a pair of blunt
ended scissors and a
blue line bisecting an
8½" x 11" paper with
intermittent contingent
praise, modeling and
chaining as necessary

the child cuts along the line

within a %" margin of error and the scissors are held such that the thumb is in the upper hole and the index or index and middle fingers are in the lower hole.

18 Given a pair of scissors

the child holds the scissors

so that the thumb is in the top hole and the index or index and middle fingers are in the second hole.

Included in MO 17 criteria.



9 Given a cue and a model with no contingent attention

the child walks

for a distance of 10 feet so that he pushes off with the ball and toes of one foot, swings knee and ankle forward, transfers weight to ball and toe of foot swinging forward, alternates right and left without breaking sequence, swings arms in opposition to legs, and points toes straight ahead.

Achieved by 4 years of age. (See Grad MO's)

20 Given a cue and a model

the child runs

for a distance of 10 feet so that he pushes off with ball and toes of one foot, raises knee of foot moving forward, both feet leave ground, alternates right and left without breaking sequence, swings arms in opposition to legs, and points toes straight ahead.

Achieved by 4 years. (See Grad MO's)

21 Given a cue and a model with no contingent attention

the child jumps on two feet

for a distance of 10 feet so that both feet leave the floor and land simultaneously.

Achieved by 4 years. (See Grad MO's)



the child gallops	for a distance of 10 feet so that he steps forward on one foot, draws the other foot to side of supporting foot and puts weight on it, and the same foot always leads.
the child balances	on one foot, transfers weight to ball of other foot momentarily and repeats five times.
the child balances	one one foot, for at least 2 seconds by the age of 3½ years.
the child walks up and down stairs	leading with the same foot on each step with a rhythmic motion.
the child skips	for a distance of 10 feet so that he steps forward on one foot, hops on same foot, steps forward on opposite foot, hops on that foot, swings arms in opposition to legs and does not break rhythmic sequence.
the child skips	for a distance of 10 feet so that he steps forward on one foot, hops on same foot, steps forward on opposite foot, hops on that foot, swings arm in opposition to legs but breaks sequence is a rhythmic sequence.
the child hops on one foot and then the other foot	for a distance of 10 feet so that he hops on one foot and then on the other in a rhythmic alternate
	the child balances the child walks up and down stairs the child skips the child skips

Given a cue and a model

the child hops on one foot

three consecutive times with the same foot leaving the ground and landing, and the other foot remaining in the air.

24 Given a cue and a model

the child hops on one foot

three consecutive times with the same foot leaving the ground and landing and the other foot remaining in the air.

Included in MO #23 - skipping.

25 Given a cue and a model

the child walks on a one inch wide tape for a distance of 10 feet with the heel of one foot touching the toe of the other foot and so that the tape is covered by the feet.

K.8, K.6
Given a cue and a model

the child walks on a one inch wide tape for a distance of 5 feet with the heel of one foot touching the toe of the other foot and so that the tape is covered by the feet.

K.4, K.2
Given a cue and a
model

the child walks on a one inch wide tape for a distance of 10 feet so that the tape is covered by the feet.

K
Given a cue and a
model

the child walks on a one inch wide tape

for a distance of 5 feet so that the tape is covered.

26 When thrown an eight inch ball from a distance of six feet

the child catches the ball

so that it does not hit the floor before or after it reaches his hands on four of five throws.



K.8		
When thrown an eight inch ball from a distance of five feet	the child catches the ball	so that it does not hit the floor before or after it reaches his hands on four of five throws.
K. 6		
When thrown an eight inch ball from a dis-tance of four feet	the child catches the ball	so that it does not hit the floor before or after it reaches his hands on four of five throws.
K.4		
When thrown an eight inch ball from a distance of three feet	the child catches the ball	so that it does not hit the floor before or after it reaches his hands on four of five throws.
K.2		
When thrown an eight inch ball from a dis-tance of two feet	the child catches the ball	so that it does not hit the floor before or after it reaches his hands on four of five throws.
K	•	
When thrown an eight inch ball from a distance of one foot	the child catches the ball	so that it does not hit the floor before or after it reaches his hands on four of five throws.



27

.0 Given an eight inch ball, a target person six feet away and a cue

the child throws the ball

so that it hits or will hit the target person between the shoulders and knees without the target person extending his arms to either side to catch the ball, reaching forward or bending down to catch the ball on four of five tries.

K.8
Given an eight inch
ball, a target person five
feet away and a cue

the child throws the ball

so that it hits or will hit the target person between the shoulders and knees without the target person extending his arms to either side to catch the ball, reaching forward or bending down to catch the ball on four of five tries.

K.6 Given an eight inch ball, a target person four feet away and a cue

the child throws the ball

so that it hits or will hit the target person between the shoulders and knees without the target person extending his arms to either side to catch the ball, reaching forward or bending down to catch the ball on four of five tries.

K.4 Given an eight inch ball, a target person three feet away and a cue

the child throws the ball

so that it hits or will hit the target person between the shoulders and knees without the target person extending his arms to either side to catch the ball, reaching forward or bending down to catch the ball on four of five tries.

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Given a cue "What is this?" and "Point to your

the child names and points to body parts (head, eyes, nose, mouth, chin, fore-head, hair, teeth, tongue, lips, eye-brow, cheek, neck, shoulder, chest, stomach, back, arm, elbow, wrist, finger, thumb, leg, knee, ankle, foot, toe)

within 5 seconds for at least 21 of the 27 body parts.

K.8, K.6
Given a cue "What is
this?" and "Point to your

the child names and points to body parts (head, eyes, nose, mouth, chin, fore-head, hair, teeth, tongue, lips, eye-brow, cheek, neck, shoulder, chest, stomach, back, arm, elbow, wrist, finger, thumb, leg, knee, ankle, foot, toe)

within 5 seconds for at least 18 of the 27 body parts.

K.4, K.2
Given a cue "What is
this?" and "Point to your

the child names and points to body parts (head, eyes, nose, mouth, chin, fore-head, hair, teeth, tongue, lips, eye-brow, cheek, neck, shoulder, chest, stomach, back, arm, elbow, wrist, finger, thumb, leg, knee, ankle, foot, toe)

within 5 seconds for at least 15 of the 27 body parts.

K
Given a cue "What is
this?" and "Point to your
"

the child names and points to body parts (head, eyes, nose, mouth, chin, forehead, hair, teeth, tongue, lips, eyebrow, cheek, neck, shoulder, chest stomach, back, arm, elbow, srist, finger, thumb, leg, knee, ankle, foot, toe)

within 5 seconds for at least 12 of the 27 body parts.

Given an eight inch
ball, a target person two
feet away and a cue

the child throws the ball

so that it hits or will hit the target person between the shoulders and knees without the target person extending his arms to either side to catch the ball, reaching forward or bending down to catch the ball on four of five tries.

K
Given an eight inch
ball, a target person one
foot away and a cue

the child throws the ball

so that it hits or will hit the target person between the shoulders and knees without the target person extending his arms to either side to catch the ball, reaching forward or bending down to catch the ball on four of five tries.

29. Given a cue

the child recognizes within 5 seconds for and names each of the the colors listed. eight basic colors (red, blue, green, yellow, orange, purple, brown, black)

K.8, K.6 Given a cue "What color is this?"

the child recognizes within 5 seconds for and names basic colors at least six of the (red, blue, green, yellow, colors listed. orange, purple, brown, black)

K.4, K.2
Given a cue
"What color is this?"

the child recognizes within 5 seconds for and names basic colors at least four of the (red blue, green, colors listed. yellow, orange, purple, brown, black)

K Given a cue 'What color is this?"

the child recognizes and names basic colors (Red, blue, green, yellow, orange, purple, brown, black)

within 5 seconds for at least two of the colors listed.



'ven a cue (e.g., "Show ... your right hand.")

the child demonstrates directional concepts (right/left, up/down, over/under, on/off, above/below, in/out, around/through, first/middle,/last)

within 5 seconds for at least 13 of the concepts listed.

K.8, K.6
Given a cue (e.g., "Show
me your right hand.")

the child demonstrates directional concepts (right/left, up/down, over/under, on/off, above/below, in/out, around/through, first/ middle,/last) within 5 seconds for at least 10 of the concepts listed.

K.4, K.2
Given a cue (e.g., "Show me your right hand.")

the child demonstrates directional concepts (right/left, up/down, over/under, on/off, above/below, in/out, around/through, first/middle,/last)

within 5 seconds for at least 8 of the concepts listed.

K
Given a cue (e.g., "Show
me your right hand.")

the child demonstrates directional concepts (right/left, up/down, over/under, on/off, above/below, in/out, around/through, first/ middle/last)

within 5 seconds for at least 6 of the concepts listed.

31

Given a cue (i.e., "What is this called?")

the child recognizes and names the basic shapes (circle, square, triangle, rectangle) within 5 seconds for at least 3 of the 4 shapes.

K.6, K.8
Given a cue (i.e.,
"What is this called?")

the child recognizes and names the basic shapes (circle, square, triangle, rectangle) within 5 seconds for at least 2 of the 4 shapes.

K, K.2, K.4
Given a cue (i.e.,
 Vhat is this called?")

the child recognizes and names the basic shapes (circle, square, triangle, rectangle) within 5 seconds for one of the four shapes.



Given a blank piece of paper, a pencil and a cue (e.g."Draw a person. It can be a man, a woman, a boy or a girl.)	the child draws a person	including 10 body parts (head, eyes, nose, mouth, hair, body, arms, legs, hands and feet).
K.8, K.6 Given a blank piece of paper, a pencil and a cue (e.g., "Draw a person. It can be a man, a woman, a boy or a girl.)	the child draws a person	including 8 of the 10 body parts (head, eyes, nose, mouth, hair, body, arms, legs, hands and feet).
K.4, K.2 Given a blank piece of paper, a pencil and a cue (e.g., "Draw a person. It can be a man, a woman, a boy or a girl.)	the child draws a person	including 6 of the 10 body parts (head, eyes, nose, mouth, hair, body, arms, legs, hands and feet).
Given a blank piece of paper, a pencil and a cue (e.g., "Draw a person. It can be a man, a woman, a boy or a girl.)	the child draws a person	including 4 of the 10 body parts (head, eyes, nose, mouth, hair, body, arms, legs, hands and feet).
33 1.0 Given a three and a four beat rhythm pattern (fing- crs beating on table.)	the child imitates each pattern	within 5 seconds 100% correctly.
K.8, K.6 Given a two and a three beat rhythm pattern (e.g., Fingers beating on table.)	the child imitates each pattern	within 5 seconds
K.4, K.2 Given a two beat rhythm pattern (e.g., Fingers beating on table.)	the child imitates	within 5 seconds 100% correctly.

the child imitates

within 5 seconds

100% correctly.

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given one beat (e.g., Fingers beat on table.)

34

Given a toothbrush (e.g., Oral B Junior size), toothpaste and water

the child will brush all his tooth surfaces (occlusal, facial and lingual) such that dental plaque is not seen on the enamel surfaces after rinsing with a disclosing solution (e.g., Trace).

K.8
Given a toothbrush
(e.g., Oral B Junior size),
toothpaste and water

the child will brush all occlusal and facial portions of the teeth such that dental plaque is not seen on the enamel surfaces after rinsing with a disclosing solution (e.g., Trace).

K.4, K.6
Given a toothbrush
(e.g., Oral B Junior size),
toothpaste and water

the child will brush the anterior facial portions and occlusal surfaces of the teeth such that dental plaque is not seen on the enamel surfaces after rinsing with a disclosing solution (e.g., Trace).

K, K.2
Given a toothbrush
(e.g., Oral B Junior size),
toothpaste and water

the child will brush the occlusal surfaces of the teeth such that dental plaque is not seen on the enamel surfaces after rinsing with a disclosing solution (e.g., Trace).



LANGUAGE SKILLS

K.1		
Given a 3 word sen-	the child will repeat	with no errors.
tence, "Today is	the sentence	
Monday"		
-		
Given 2 objects of	the student will point	with 100% accuracy
clearly different	to the larger or smal-	on every occasion.
sizes and a prompt	ler object	on crossy occursion.
	201 00,000	
Given a cue from	the child will sing	with 50% accuracy.
the teacher	the alphabet song	
		·
Given samples of	the child will name	with 100% accuracy
8 basic colors	the colors	•
Given a pencil and	the child will print	with the first lev-
a piece of paper	his first name	ter upper case and
		following letters in
		lower case and such
		that the letters are
•		within a box 2" wide
		and 9" long.

These objectives are sequenced by the month for the kindergarten year. (e.g. K-1 means these objectives should be achieved by the end of September, K.2-end of October, etc.)

	7
٠	4

Given 4 presentations of a set of 4 pictures and a sentence (with a maximum of seven words) for each picture	the child will re- cite the sentences	with no errors.
Given two objects of different lengths and a prompt	the student will point to the shorter or longer	with 100% accuracy on every occasion.
Given two persons or objects of clearly dif- ferent heights and a prompt	the student will point to the taller or the shorter	with 100% accuracy on every occasion.
Given a cue from the teacher	the child will sing the alphabet song	with 100% accuracy.
Given a pencil and a piece of paper	the child will print his first name	with the first let- ter upper case and following letters lower case and such that the letters are correctly formed and within a box 1½" wide and 8" long.
Given the 4 basic shapes	the child will name each shape	with 100% accuracy.



11		~
K	•	3

Biven repetition of a the child will recite with no errors. 4 line poem on 4 conthe poem secutive days and a cue the child will count Given a cue from the with 100% accuracy. teacher out loud from 1 to 5 Given two objects in with 100% accuracy the student will point different vertical to the higher/lower on every occasion. planes and a prompt Given two objects in the student will point with 100% accuracy different vertical to an object as being on every occasion. planes and a prompt over or under the other Given a set of obwith 100% accuracy. the student will place jects placed in a the next object in the pattern pattern Given a piece of the child will print his with the initial paper and a pencil first name letter in the upper case and the rest in lower case with correctly formed letters on primary writing paper. Given a cue from the the child will recite with 100% accuracy. teacher the alphabet at least 80% correctly. Given a cue and a the child points to and full length mirror names parts of his body

that are visable includ-

ing head, eyes, nose, mouth

chin, forenead, hair, teeth,

tongue, lips, eyebrows, cheek,

neck, shoulder, chest, stomach,

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K-3 (Cont'd.)

back, arm, elbow, wrist,
finger, thumb, leg, knee,
ankle, foot, toe

the teacher	the child will count out loud	from 1 to 10.
Given 5 pairs of rhyming words in picture form	the child will pair the 10 pictures	with 80% accuracy.
Given a set of 3 ob- jects in which 1 is "different", and a verbal cue	the child will desig- nate the object that is different	with 100% accuracy.
Given 2 sets of upper case letters	the child will match like letters	with no more than 6 errors.
Given 2 sets of lower case letters	the child will match like letters	with no more than 6 errors.
Given a number of objects	the child will count and tell how many	for any number less than 5.
Given the set of upper case alpha- bet letters in random order	the child will name the letters correctly	within 3 seconds and with 75% accuracy.



v	E
1	J

<pre>iven 2 sets of 10 ob- jects (pencils, crayons, letters, circles)</pre>		with 100% accuracy.
Given a set of 3 ob- jects in which 2 are the "same" and a ver- bal cue	the child will desig- nate the two similar objects	with 100% accuracy.
Given a cue from the teacher	the child will count out a directed number of objects from a pile of objects	for any number less than 10.
Given two sets of ob- jects and a prompt	the student can point to the set that has more or less	with 100% accuracy.
Given 5 pairs of in- itial sounds in pic- ture form	the child will pair the 10 pictures	with 80% accuracy.
Given the set of up- per case alphabet letters in random order	the child will name the letters correctly	within 3 seconds and with 100% accuracy.
Given a number of objects	the child will count and tell how many	for any number less than 10.



K.6

Given the numerals

1 through 10

Given the set of lower case letters in random order

Given a cue

the child will name

the numerals

the child will name the letters correctly

the child demonstrates right, left, up, down, in, out, above, below, on, off, around, through, first, middle, last

correctly.

within 3 seconds and with 100% accuracy.

80-100% correctly.



7

Given a cue from the teacher

the child will count out loud

from at least 1 to 20.

Given a set of upper and lower case letters

the child will match...
upper and lower case
letters

with 100% accuracy.

Given the numerals
1 through 5

the child will write the numerals

correctly.

Given a piece of paper and a pencil and primary writing paper

the child will write his first and last name with correctly formed letters.



K.8
Given the 19 consonants on cards

the child will give the correct sound verbally for 7 consonants within 3 seconds.

Given the numerals 1 through 10 the child will write the numerals correctly.

Given a cue from the teacher

the child will demonstrate the opposite concept ("What is the opposite of up?") without prompts.



K.9

Given the 19 consonants on cards

the child will give the correct sound verbally within 3 seconds for 14 of the consonants.

Given the directions to count out a number of objects the student will place the objects on the table for any number less than 5.



..10

Given the 19 consonants on cards the child will give the correct sound verbally within 3 seconds for all 19 consonants.

Given the directions to count out a number of objects

the student will place the objects on the table for any number less than 10.



Appendix vi

MINIMUM OBJECTIVES SEQUENCED FOR FIRST SIX YEARS

Language and Perception Minimum Objectives

Burns, J., Getsie, R., Grad, N. Marcy, C., Wade, M., Knight, M., and Lates, B.J., 1972

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Language

Given a cue	the child recites the alphabet	in consecutive order with 25% accuracy by age, 3 yrs. 2 mos.
Given a cue	the child recites the alphabet	in consecutive order with 50% accuracy by age, 3 yrs. 7 mos.
Given a cue	the child recites the alphabet	in consecutive order with 75% accuracy by age, 3 yrs. 9 r s.
Given a cue	the child recites the alphabet	in consecutive order with 100% accuracy by age, 3 yrs. 10 m·s.
Given a cue	the child counts to ten	within 30 seconds by age, 3 yrs. 10 mos.
After listening to a 3 word sentence	the child imitates the sentence	with 100% accuracy by age, 2 yrs. 6 mos.
After listening to a l word sentence	the child imitates the sentence	with 100% accuracy by age, 1 yr.
Given a pencil, a piece of paper with a horizon-tal line and dotted letters of child's name	letters t-	so that each letter is recognized by 2 in-dependent observers and the tracing marks completely cover the model by age, 4 yrs. 4 mos.
Given a pencil, a piece of paper with a horizontaline and the child's name printed on the line		so that the tracing marks completely cover the model letters and such that each letter is recognized by 2 independent observers by age, 3 yrs. 10 mos.



2.

Given a crayon, the child traces completely covers the models and so that 2 so that the tracing a piece of paper the circles and and models of lines circles and lines independent observers can identify the circles and lines by age, 3 yrs. 3 mos. Given a crayon the child scribbles such that the paper is and a piece of on the paper not torn or rumpled, paper by age, 2 yrs. Given a picture the child say one appropriate to the with one object word picture by age, 2 familiar to the yrs. 10 mos. child Given a picture the child makes such that 2 independent with one object sound approximations observers would agree familiar to the on what the child is trying to say by age, child 2 yrs. 4 mos. Given a recent the child will tell such that the facts are in correct sequence past event (withabout the event with by age, 4 yrs. 10 mos. in one day) 3 facts Given a recent the child will tell such that the facts past event (withabout the event with are in correct sequence, in one day) 2 facts by age 3 yrs. 10 mos. Given a recent the child will tell such that the fact is past event (withabout the event with in correct sequence, in one day) 1 fact by age, 3 yrs. 1 mo. Given a series of the child arranges within 15 seconds, 3 pictures in nonby age, 4 yrs. 8 mos. the pictures in systematic order order and a cue Given a series of with 15 seconds, the child arranges 2 pictures in nonthe pictures in by age, 3 yrs. 10 mos. systematic order order and a cue



	·	
Given three pic- tures and a cue	the child names the pictures	with 100% accuracy by age, 2 yrs. 10 mos.
Given sets of 1-8 objects	the child names the objects	with 100% accuracy by age, 5 yrs, 10 mos.
Given sets of 1-5 objects	tne child names the objects	with 100% accuracy by age, 5 yrs, 5 mo.
Given sets of 1, 3 and 3 ob- jects	the child names the objects	with 100% accuracy by age, 4 yrs. 6 mos.
Given pets of 1 & 2 objects	the child tells how many objects are in the set	100% correctly by age, 3 yrs. 6 mos.
Given printed upper case al- phabet letters in non-systemat- ic order	the child names the letters	50% correctly by age, 5 yrs. 3 mos.
Given printed upper case al- phabet letters in non-systemat- ic order	the child names the letters	25% correctly by age, 4 yrs, 6 mos.
Given printed low- er case alphabet letters in non- systematic order	the child names the letters	50% correctly by age, 5 yrs. 5 mos.
Given 18 words each beginning with a different consonant sound	the child will tell the beginning sound for each word	with 50% accuracy by age, 5 yrs. 10 mos.
Given 18 words each beginning with a different consonant sound	the child will tell the beginning sound for each word	4 sounds by age 5 yrs. 8 mos.



Given 3 questions including main idea and action questions	the child will answer	2 of the 3 questions correctly as judged by at least 2 independent observers by age, 4 years 10 mos.
Given one question about the main idea	the child will answer	the question correctly as judged by at least 2 independent observers by age 3 yrs 10 mos.
Perception		
Given a cue	the child names and points to at least 3 body parts (e.g., eyes, nose mouth)	with 100% accuracy by age, 2 yrs 3 mos.
Given a cue	the child names and points to at least 9 body parts	with 100% accuracy by age, 4 yrs. 6 mos.
Given a cue	the child names and points to at least 20 body parts	with 100% accuracy by age, 5 years 1 mo.
Given a cue	the child names and points to 27 body parts	with 100% accuracy by age, 5 yrs. 10 mos.
Given a cue	the child recognizes 3 colors (e.g., red, blue, yellow)	with 100% accuracy, by age 3 yrs. 8 mos.
Given a cue	the child recognizes 5 colors	with 100% accuracy by age, 4 yrs. 4 mos.
Given a cue	the child recognizes 8 colors	with 100% accuracy, by age 5 yrs. 8 mos.
Given a cue	the child demonstrates 3 directional concepts (e.g., up/down, on/off, in/out)	with 100% accuracy, by age 2 yrs. 8 mos.

Given a cue	the child demonstrates at least 6 directional concepts	with 100% accuracy, by age 4 yrs. 6 mos.
Given a cue	the child demonstrates at least 8 directional concepts (including right/left)	with 100% accuracy, by age 5 yrs. 10 mos.
Given a cue	the child recognizes and names 1 shape (e.g., circle)	with 100% accuracy, by age 3 yrs. 10 mos.
Given a cue	the child recognizes and names 3 basic shapes (e.g., circle, square, triangle.)	with 100% accuracy, by age 5 yrs. 1 mo.
Given a cue	the child recognizes and names 4 basic shapes (e.g., circle, square, triangle, rectangle)	with 100% accuracy by age, 5 yrs. 10 mos.
Given a blank piece of paper, a pencil and a cue	the child draws a per- son	which is composed of at least three parts (including the head, eyes, mouth), by age 3 yrs. 6 mos.
Given a blank piece of paper, a pencil and a cue	the child draws a person	which is composed of at least 6 parts, by age 4 yrs. 6 mos.
Given a blank piece of paper, a pencil and a cue	the child draws a person	which is composed of at least 8 parts, by age 5 yrs. 6 mos.
Given a 2 beat rhythm pattern	the child imitates the pattern	with 100% accuracy by age 3 yrs. 10 mos.



Given a 2 and a 3 beat rhythm pattern

the child imitates the pattern

with 100% accuracy, by age 4 yrs. 7 mos.

Given a 3 and a 4 beat rhythm pattern

pattern

the child imitates the with 100% accuracy, by age 5 yrs. 4 mos.

Participation Minimum Objectives

Given a child at a B.D. party (or other social gathering)

the child will participate in a directed game/activity

for at least 5 minutes by age 2.

Given a child in a nursery school

the child participates in a directed activity

for at least 80% of a 10 minute interval by age 3

Given a child in nursery school

the child participates in a directed activity

for at least 80% of a 15 minute interval by age 4.

Given 3 toys

the child will play by himself for at least a 5-10 minute period with a maximum of 2 prompts by age 2.

Given a choice of play materials

the child will play by himself

for at least 10-15 minutes with a maximum of 2 prompts by age 4.

Given a prompt

the child at-tends to an independent activity

for at least 80% of a 10 minute interval by age 5.

Given no more than 3 prompts

the child will respond to a 1 step direction (say bye, bye) within 5 seconds by age 1.



	Given a 2 step direction	the child com- pletes the di- rections	with no prompts by age 3.
	Given a 3 step direction	the child com- pletes the di- rections	with no prompts by age 5.
•	During any time of the day	the child asks questions	on at least 3 occasions by age 2.
	When questioned about his first name and sex	the child will answer the questions	accurately and within 5 seconds by age 3.
	When in a group	the child volun- teers verbal re- sponses	at least once per week by age 4.
	When in a group	the child volun- teers verbal re- sponses	at least three times per week by age 5.
	Given the prompt to do a task (Pick up your toys.)	the child will begin the task	within 10 seconds by age 2.
	Given two tasks to complete	the child com- pletes one task	before beginning the next by age 5.
	Given a non-di- rected group activity	the child watches the group	with head oriented toward the group for at least 3 out of 5 minutes by age 2.
	Given a non-di- rected group activity	the child joins the group	such that he is within 3 feet proximity to the group for 5 out of 10 minutes by age 3.



Given a non-directed group activity the child joins
the group and engaged in the same
play behaviors

without disrupting the on-going activity for 10 out of 15 minutes by age 4.

Given a group assigned task

the child works with the other children to complete the assigned task

in a cooperative manner by age 5.

Social Minimum Objectives

When asked questions about his name, the use of a toy and members of his family

the child responds verbally

on at least 80% of the occasions by the age of 3 years.

When asked about a recent event

the child responds verbally

with eye contact on at least 80% of the occasions by the age of 4 years.

When in a group of peers or adults (2 or more)

the child interrupts the ongoing activity such that at least one member of the group ceases ongoing activity at a minimum of 2 times during 10 minutes by the age of 15 months.

When in a group of peers or adults (2 or more)

the child interrupts the ongoing activity such that at least one member of the group ceases ongoing activity at a minimum of 2 times during a 15 minute period by the age of 2 years.



When in a group of peers or adults (2 or more)	the child inter- rupts the ongoing activity	such that at least one member of the group ceases ongoing activity at a minimum of 2 times during a 20 minute period by the age of 4 years.
During any time of the day	the child uses inappropriate speech (swearing and threats)	on no more than 2 occasions by the age of 2 years.
During any time of the day	the child uses inappropriate speech (swearing and threats)	on no occasions by the age of 4 years.
During any time of the day	the child initiates "aggressive actions" (Hitting, kicking, scratching, biting, spitting, throwing and pushing)	on no more than 2 occasions by the age of 1 year.
During any time of the day	the child initiates aggressive actions (hitting, kicking, scratching, biting, spitting, throwing and pushing)	on no occasions by the age of 2 years.
During any time of the day when there is no physical reason	the child cries or whines	on no more than 2 occasions by the ago of 1 year.
During any time of the day when there is no physical reason	the child cries or whines	on no occasions by the age of 3 years.
During any time of the day	the child engages in self-stimulative behaviors	without precluding at- tention to the on- going activity by the age of 2 years.



Motor and Self-Care Minimum Objectives

WALKING

Given a cue and a model

the child walks

for at least a distance of 10 feet in a heel to toe walk so that he pushes off with the ball and toes of one foot, swings knee and ankle forward, transfers weight to ball and toe of foot swinging forward, alternates right and left without breaking sequence, swings arms in opposition to legs, and points toes straight ahead by the age of 4 years.

Given a cue and a model

the child walks

for at least 75% of the time in a heel to toe walk without falling stumbling by the age of 4 years.

Given a cue and a model

the child walks

in preference to crawling 100% of the time when he is moving from place to place by the age of two years. The child does not necessarily exhibit heel to toe walk.

Given a cue

the child stands

alone without falling for at least 2 minutes and attempts walking even though he may fall, by the age of 16 months.

Given a cue

the child walks

while holding on to furniture for 50% of the time he is moving from place to place by the age of 1.2 months.



Biven a cue

the child stands

while holding on to a support for 5 seconds by the age of 10 months.

Given a cue

the child creeps on hands and knees

to move from one place to another for at least 10 feet by the age of 10 months.

Given a cue

the child gets up into a hand-knees position

by himself for at least 1 minute by the age of 9 months.

Given a cue

the child crawls on his stomach

for a distance of 3 feet by the age of 7 months.

RUNNING

Given a cue and a model

the child runs

for a distance of ten feet so that he pushes off with ball and toes of one foot, raises knee moving forward, both feet leave ground, alternates right and left without breaking sequence, swings arms in opposition to legs, and points to a straight ahead by the age of 4 years.

Given a cue and a model

the child runs

for a distance of ten feet without falling, tripping or bumping by the age of 3 years.

Given a cue and a model

the child walks-runs

flat on his feet for three feet by the age of 24 years.

(Prior to 2½ years same as walking.)



HOPS ON TWO FEET

ven a cue and the child hops on a model

two feet

for a distance of 10 feet so that both feet leave the floor simultaneously by the age of 4 years.

Given a cue and the child hops on a model

two feet

for a distance of 5 feet so that both feet leave the floor and land on the floor approximately together by the age

of 3½ years.

Given a cue and

a model

the child hops in place

at least five times so that both feet leave the floor and land approximately simultaneously by the age of 3 years.

GALLOPING

Given a cue and

a model

the child gallops

for a distance of 10 feet so that he steps forward on one foot, draws the other foot to side of supporting foot and puts weight on it, and always leads with the same foot by the age of 4 years.

Given a cue and

a model

the child balances

on one foot, transfers weight to ball of other foot momentarily and repeats five times by the age of 4 years.

Given a cue and

a model

the child balances

on one foot, for at least 2 seconds by the age of 3½ years.

Given a cue

the child walks both up and down at least 5 stairs leading with the same foot on each step with a rhythmic motion by the age of 3½ years.



CUTTING CIRCLE

siven a pair of scissors and a circle outlined on a piece of paper the child will cut out the circle within no more than 1/2" deviation either toward or away from the center of the circle by the age of 6 years.

Given a pair of scissors and a paper with a 1/2" cross drawn in black ink on the paper the child will cu**t** out the cross

not deviating more than 1/4" in any direction from the cross 100% of the time by the age of 5 years.

Given a pair of scissors and a paper with a 1/2" line drawn from one side to the other in black ink

the child will cut on the line

within the black line 100% of the time by the age of 4 1/2 years.

Given a pair of scissors

the child will hold the scissors

so that the thumb is in the top hole and the index or index and middle fingers are in the second hole by the age of 4 years.

SELF-CARE

DRESSING

When necessary

the child dresses

himself

including buttoning, snapping, zipping, and tying but excluding difficult zippers and bows he cannot see by the age of 6 years.

When necessary

the child dresses himself

without help except for ties and closures he cannot see by the age of 5 years.



When necessary	the child dresses himself	except for zippers, grippers, ties and closures he can- not see by the age of 4 years.
When hecessary	the child dresses himself	except for snaps, buttons, zippers, grippers, ties and closures he cannot see 50% of the time by the age of 3 1/2 years.
When given a cue	the child helps to dress himself	by holding out his arm for a sleeve, hands for mittens and feet for shoes, etc. by the age of 2 years.
EATING		
During a meal or snack time	the child feeds him- self and uses his eating utensils	correctly on every occasion by the age of six years.
During a meal or snack time	the child feeds him- self and uses his eating utensils	properly except for meat cutting on each occasion by the age of 5 years.
During a meal or snack time	the child feeds him- self and uses his eating utensils	properly except for cutting by the age of 4 years. The child now cuts only soft things with his knife.
During a meal or snack time and given only a spoon	the child feeds himself	with minimal spilling when the food is not runny by the age of 3 years.
Given a liquid in a cup during meal or snack time	the child picks up, drinks from and replaces the cup on the table	at all times and without spilling by the age of 2 1/2 years.



time or meal time

the child picks unassisted and without a straw by the age of 2 Given liquid in up and drinks from the cup a cup years. properly by the age of the child will use 2 years Given a meal or the spoon snack which may be eaten with a spoon but is unable to turn the the child holds spoon to empty the food i: Given a spoon at the spoon and lifts food with it his mouth by the age of meal time 1 year. Given liquid in a cup at meal or snack time with assistance and with the child picks up minimal spilling by the the cup and drinks from it age of 1 year. with his hands by the Given a "Finger Food" at snack the child feeds himself age of 1 year.

Toileting and Gross Motor Minimum Objectives

TOILETING .		
When necessary	the child demonstrates independent proper use of the toilet	100% of the time by age 6.
When necessary	the child demonstrates independent prpoer use of the toilet (includes wiping bottom, flushing toilet, appropriate rearrangement of clothing, washing and drying hands)	75% of the time with out assistance and 100% of the time without accidents by age 5.
When necessary	the child demonstrates independent proper use of the toilet	50% of the time with out assistance and 100% of the time without accidents by age 4.
When necessary	the child uses the toilet	25% of the time with out assistance and 75% of the time with out accidents by age



16,

When necessary

the child verbalizes toilet needs

50% of the timy by age 2.

When necessary

the child uses the toilet

with adult assistance 100% of the time and is accident free 50% of the time by age 2.

Walking Balance Beam

Given a cue, a model and a balance beam 10 ft. long, four inches wide and six inches high the child walks across the balance beam

that neither foot touches the floor, 100% of the time by age 6.

Given a cue, a model and a balance beam 10 ft. long, four inches wide and two inches high

the child walks across the balance beam

so that neither foot touches the floor 100% of the time by age 5.

Given a cue, a model and a 2 inch wide tape line on the floor

the child walks placing one foot in front of the other so that the tape is covered 100% of the time by age 4.

Given a cue, a model and a 12 inch aisle outlined by tape on the floor the child walks between the tapes placing one foot in front of the other without touching the tape 100% of the time by age 3.

Hopping on One Foot

Given a cue and a model

the child hops on one foot

3 consecutive times with the same foot leaving the ground and landing and the other foot remaining in the air 100% of the time by age 5.

Given a cue and a model

the child hops on one foot

2 consecutive times with the same foot leaving the ground and landing and the other foot remaining in the air 100% of the time by age 4.

Given a cue and a model

the child stands on one foot

for one second by age 3.

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iven a cue and a model

the child stands on one foot with other foot off the floor holding on to a support (e.g., chair)

for one second by age 2.

Skipping

Given a cue and a model

the child skips for a distance of 10 feet

so that he steps forward on one foot, hops on same foot, steps forward on opposite foot, hops on that foot, swings arms in opposition to legs and does not break sequence 100% of the time by age 5.

Given a cue and a model

the child skips in lame duck (hopping) fashion

by age 4.

Catching Ball

When thrown an 8 inch ball from a distance of six feet

the child catches the ball

so that it does not hit the floor before or after it reaches his hands at least 80% of the throws by age 6.

When thrown a 10 inch ball from a distance of six feet

the child catches the ball with 2 hands

with success 33 1/3% of the time by age 3.

Throwing Ball

Given a 5 inch diameter pall

the child throws

it

the child throws

using both hands without aim by age 2.

Given an 8 inch diameter ball the child throws it

using both hands hitting a target six feet away 50% of the time by age 4.



Appendix vii

CASE STUDIES 1971-1972



BURT

CHILD AND REFERRAL PROBLEM

Burt was a five year old boy with one older brother. His parents reported that Burt did not attend to any activity for more than a few minutes at a time and did not seem ready for school.

OBJECTIVE 1

Given upper and lower case alphabet letters printed on index cards and presented singly the child names each letter

correctly and within two seconds of presentation.

MEASUREMENT PROCEDURES

Each day five letters were presented to Burt by his mother or father. A "+" was recorded for each letter correctly named within two seconds of presentation and a "0" was recorded for no response or an incorrectly named letter. Letters named correctly on two consecutive days were recorded as learned and another letter was presented in its place.

Reliability of measures were obtained weekly by the parent trainer who measured Burt's responses indpendently.

TEACHING/LEARNING PROCEDURES

During Baseline 1, after the correctness of Burt's letter, naming responses was recorded, the cards on which the letters



were printed were shuffled and presented to Burt again. If Burt named the presented letter correctly within a two second interval he was praised and that letter was not presented again that day. If Burt did not name the presented letter correctly within a two second interval that letter was named by the parent and Burt was then asked to name the letter himself, imitating his parent. The same letter was presented again immediately after the next letter in the sequence. Each of the five letters were presented in this manner until all five letters were named correctly on one presentation without the parent's help.

During Contingent Prize 1, conditions were the same as in Baseline 1, except crayons and games were given contingent upon Burt learning a letter. Burt was allowed to choose from a selection of several decoratively wrapped prizes when he named a letter correctly on two consecutive days.

Baseline 2 conditions were the same as for Baseline 1.

Contingent Prize 2 conditions were the same as for Contingent Prize 1.

RESULTS

During the Baseline 1, Burt learned eight letters during the 34 days, a rate of .2 letters per day.

During Contingent Prize 1, the rate increased to .6 letters per day for the 12 day period.

No letters were learned during the ten days of the Baseline 2 condition.

Thirty three letters were learned during Contingent Prize 2, a rate of .8 letters per day during the 44 days. The parent trainer observations agreed with the observations of the parent

on every occasion.

OBJECTIVE 2

Given a prompt

the child attends to an independent

for at least 80% of a 10 minute interval

work activity

MEASUREMENT PROCEDURES

One or both parents recorded the type and frequency of play activity engaged in without interuption for at least ten minutes, (e.g. playing with toy cars, drawing etc.)

TEACHING LEARNING PROCEDURES

When Burt played with the same materials for at least 10 minutes without interuption he was praised.

RESULTS

Burt engaged in one of six different play activities from four to eleven times per week over a seven week period.

OBJECTIVES 3 and 4

Given a cue and a piece of paper and a pencil

the child prints

his name

such that the first letter is upper case and the rest lower case and are printed in order and in horizontally correct size and shape.

Given a pencil, paper and a cue

the child draws a man

including head, eyes, nose, mouth, hair, body, arms, legs, hands and feet.

MEASUREMENT PROCEUDRES

Each day for 47 days Burt was asked by his mother to print his first name and draw a picture of a man. Burt's



products were evaluated each week by the home trainer.

TEACHING LEARNING PROCEDURES

Burt was instructed to first trace figures, then copy figures and finally to make figures without a modle. Burt was also instructed to make more detailed figures as his figures improved. Burt was praised each day for meeting or exceeding the criteria.

RESULTS

Letters were traced for the first 13 days and were then printed using a model for the next 31 days. Approximations to the figure of a man were partially traced and partially drawn independently for the first 27 days. Burt achieved the objectives of printing his name and drawing a man independently on the 45th day.

OBJECTIVE 5

Given a cue

the child recognizes and names the eight basic colors 100% correctly.

MEASUPEMENT PROCEDURES

For 16 days Burt's mother recorded his correct (+) or incorrect (0) responses to the eight basic colors.

TEACHING LEARNING PROCEDURES

Burt's mother pointed to colors singly on a prepared data sheet. Burt was praised when he correctly named the color to which his mother pointed. When he didn't name the



color within two seconds he was told the name of the color and repeated the name while looking at the color. Colors were pointed to in varying order until Burt correctly named each color within a two second interval.

RESULTS

Burt's percentage of correct responses ranged from 75 to 100 percent for the first six days and maintained at 100 percent for the next ten days.

OBJECTIVE 6

Given a cue

the child skips

for a distance of at least ten feet.

MEASUREMENT PROCEDURES

Burt's mother and father recorded his success or failure at skipping approximations for 38 days. Approximations were hopping on the left foot, hopping on the right foot, hopping alternately on the left and right feet, and finally skipping with an even rhythm.

TEACHING LEARNING PROCEDURES

Approximations were first demonstrated by the home trainer, then done with the home trainer and finally done independently. Burt demonstrated at least one successful approximation for his mother each day. Burt was praised for these successful approximations.

RESULTS

Burt was not successful at any approximation for the first



two days. He successfully hopped on his left foot for the next 13:days and on both his left and right feet for the next two days. Burt hopped alternately on the left and right feet for the next nine days and skipped with an even rhythm for the final 12 days.

OBJECTIVE 7

Given a cue

the child recognizes and names the four basic shapes (circle, square, triangle and rectangle) at least 75% correctly.

MEASUREMENT PROCEDURES

For 17 days Burts mother recorded his correct (+) or incorrect (0) responses to the four basic shapes.

TEACHING LEARNING PROCEDURES

Burt's mother pointed to the shapes singly on a prepared data sheet. Burt was praised when he correctly named the shape to which his mother pointed. When he didn't name the shape within two seconds he was told the name of the shape within two seconds he was told the name of the shape and repeated the name while looking at the shape. Shapes were pointed to in varying order until Burt correctly named each shape within a two second interval.

RESULTS

Burts percentages of correct responses ranged from 75 to 100 percent for the first seven days and maintained at 100 percent for the next ten days.



Table 1 shows the scores for specific objectives over eight months.

		February 1972	September 1972
Ţ	Letter Recognition Upper case	. 04	.62
]	Letter Recognition Lower Case	.00	.46
V	Writing the Name	.00	.75
I	Drawing a Man	.00	.80
(Color Recognition	.63	1.00
5	Skippin,	00	.00
·	Shape Recognition	.67	1.00

Table 1

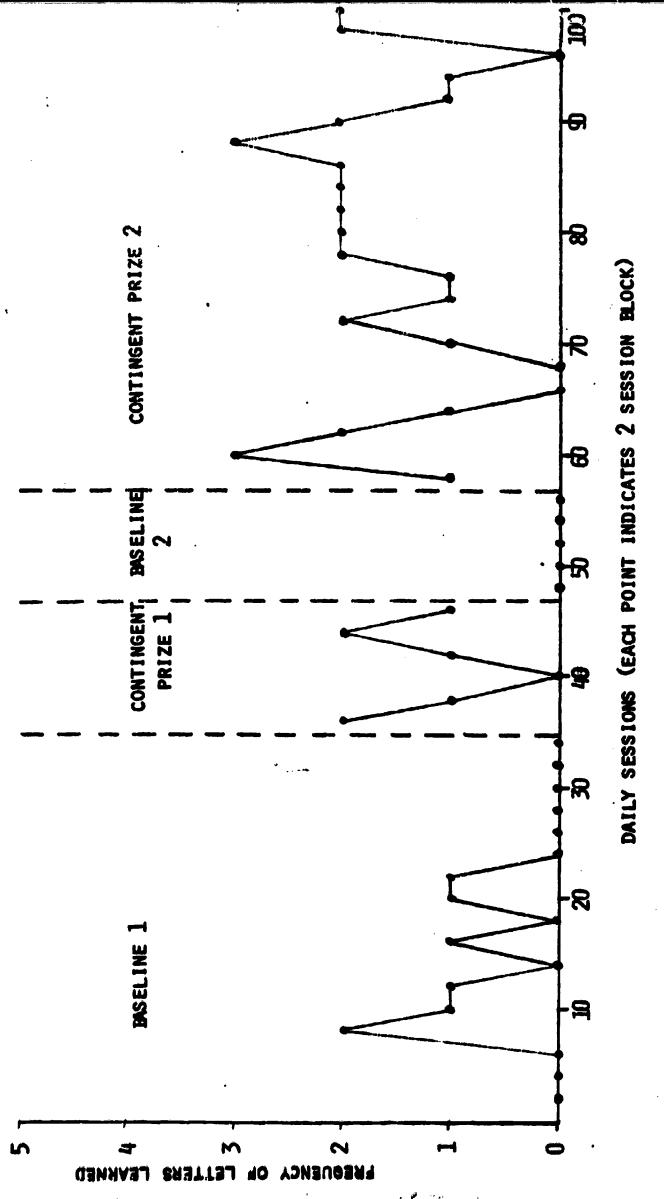
Table ? shows the overall scores for the EEEP entry level test over eight months.

Ĩ	ebruary	September
	428	83%

Table 2



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FREQUENCY OF LETTERS LEARNED (RECOGNIZED CORRECTLY ON TEST ON TWO CONSECUTIVE SESSIONS) DURING DAILY THREE MINUTE SESSIONS.

CELIA

CHILD AND REFERRAL PROBLEM

Celia was a five year old girl with four older brothers and one older sister. Her mother reported that Celia tantrummed and would not dress herself.

Celia attended the Winooski Day Care Center daily. Her teachers reported that she also needed help in interacting with peers as well as learning self-care skills.

Celia received speech therapy at the center provided through a University of Vermont Speech Department graduate student. She was also evaluated by the Child Development Clinic in the Fall of 1971.

OBJECTIVES

During any time of the day when there is no physical reason	the child cries or whines (tan-trums)	on no occasions.
When necessary	the child dresses herself	including tying, buttoning, snapping, but excluding dif- ficult zippers and bows she cannot see.

Given paper, pencil, the child will such that a task is crayons, clay and work with the completed (e.g., story books providlistening to the enmaterials ed by the home tire story, making figure with clay, trainer, daily sessions of at least printing name, draw-10 minutes duration ing picture). and another's or sister's assistance





Siven a bedtime set at 9:30 p.m. or before and reminders to go to bed

the child will be in her own bed

by 9:30 p.m. and will remain there for the night.

MEASUREMENT PROCEDURES

Each day Celia's mother or sister recorded a check or comment in the appropriate column on the data sheet if Celia achieved the objective for that day.

ACHING/LEARNING PROCEDURES

Calia's mother and sister praised Celia each time she met an objective.

RESULTS

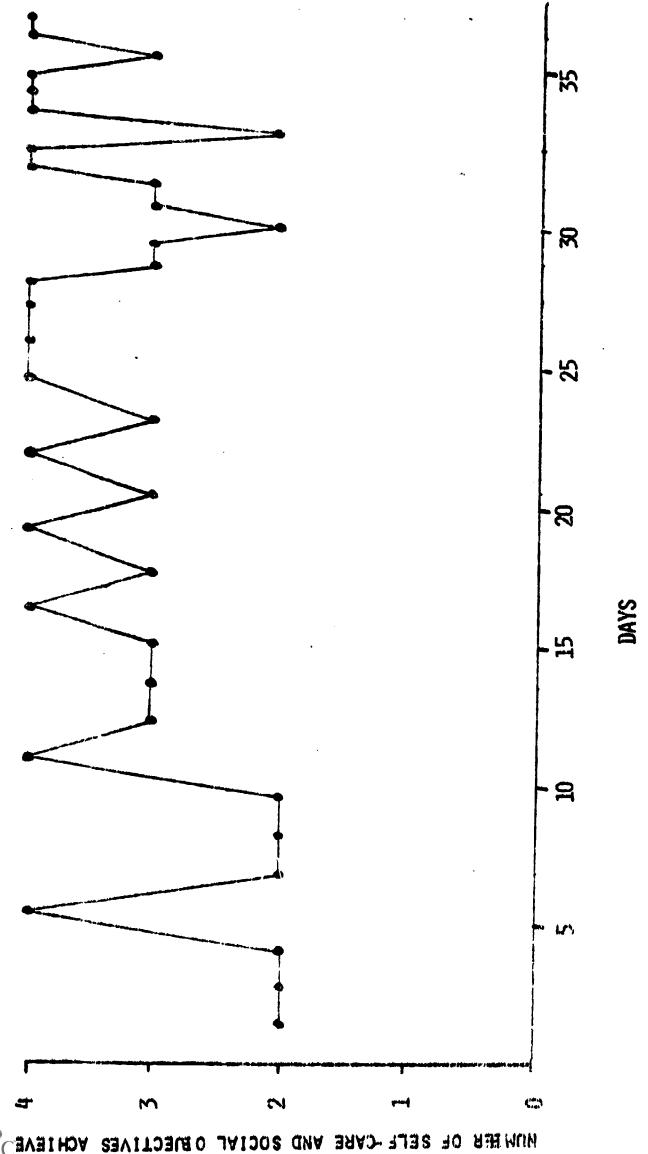
During the first five days of the 36 days an average of 7.4 of the four objectives were achieved each day.

During the last five days of the 36 days an average of 3.8 of the four objectives were achieved each day.

Table 1 shows the overall scores for the EEEP entry level test ever eight months.

ember
18





HUMER OF SELF-CARE AND SOCIAL OBJECTIVES (1. NON-TANTRUMMING, 2. DRESSING INDEPENDENTLY, 9:30) ACHIEVED DAILY, 3. NORKING WITH EEEP MATERIALS, 4. GOING TO EED BY

Colchester Martha Knight Mary Carter 1971-1972

MARVIN

CHILD AND REFERRAL PROBLEM

Marvin was a five year old boy with two older brothers and one younger sister. His parents reported that Marvin had been diagnosed by a neurologist as having an "intentional tremor" which interfered with his learning both fine and gross motor skills. They also reported that Marvin occasionally stood in the middle of a room and "spinned" around rapidly and rocked his body when fatigued.

OBJECTIVE 1

Given a chemical pen, printing exercises in Write and See Book I (Lyons and Carnahan) and five minutes each day

the child traces or copies the model

such that the pen marks are within the specified boundaries.

MUASUREMENT PROCEDURES

Marvin's mother monitored the five minutes of writing time with a kitchen timer and recorded the points in the writing book at which he started and stopped each day.

The home trainer later counted the number of responses completed correctly during each five minute session. The number of correct responses was divided by five to obtain rate per minute.





TEACHING LEARNING PROCEDURES

Newvin's mother stayed in the same room with him for the first minute writing session and praised him for lines that were straight and firm, indicating no tremor. She would say, for instance. "That's a good line!" while pointing at the line.

She did not say anything about the lines that were shaky, indicating it to sor.

RESULTS

Manufacture cate of writing responses per minute increased translation according per minute in the first session to 11 resupporters or minute in the last session (day 19).

Call IV

Civen a lab were

the chi d skips

tor a distance of at least ten feet.

SERVICES OF PROCEDURES

The state of the discrete Marvin to practice the approximation of the week. Showere the chark "t" in the appropriate column when at least one of the completed. Approximations practiced during five the approximations practiced during five

- hopping on one foot with mother
- . ropping on one foot alone
- and with mother
 - lopping on alternate feet alone
- ekipping alone



Each week the home trainer determined the approximation to be practiced that week.

TEACHING/LEARNING PROCEDURES

Marvin's mother praised him following each successful practice trial. Unsuccessful practice trials were followed by practicing an easier approximation. The session was always terminated with a successful trial of the specified approximation.

RESULTS

Marvin could not skip when directed to do so before the program hegan. By the fifth week of the program Marvin achieved the objective and could skip.

Table 1 shows the scores for specific objectives over eight months.

Skipping	January	September
	.00	1.00
<u>L</u>	1	

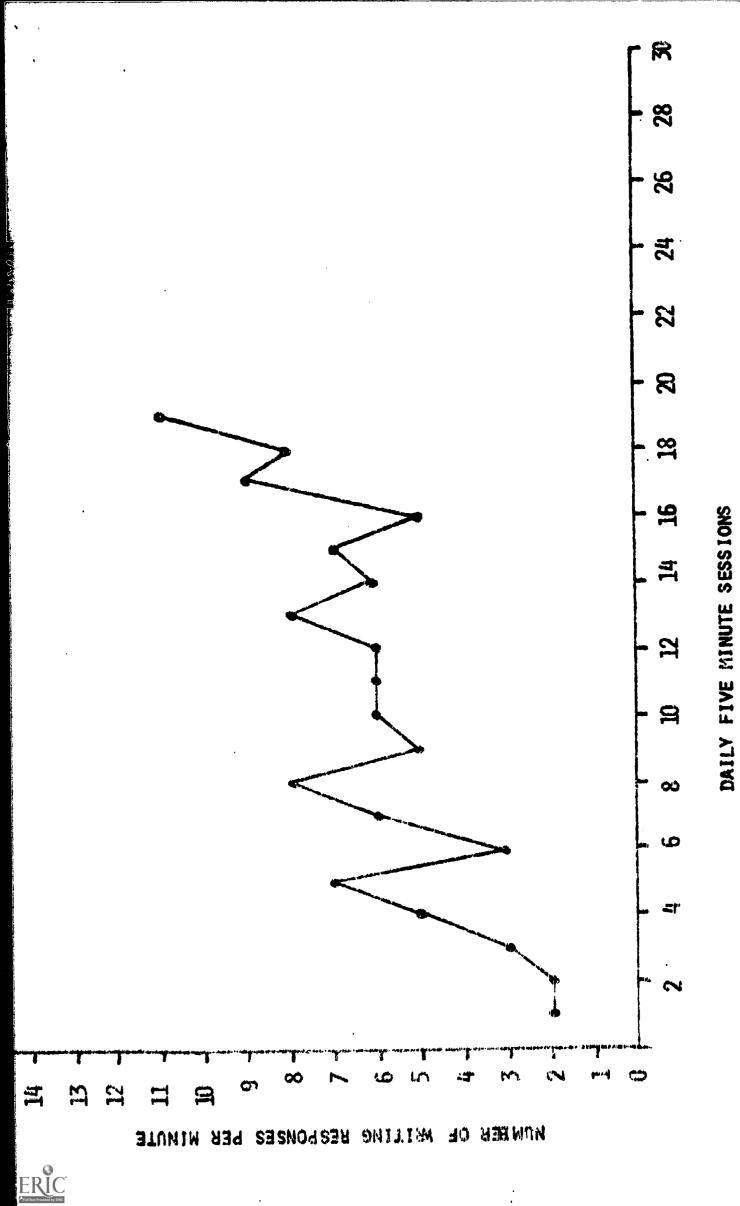
Table 1

Table 2 shows the overall scores for the EEEP entry level test over eight months

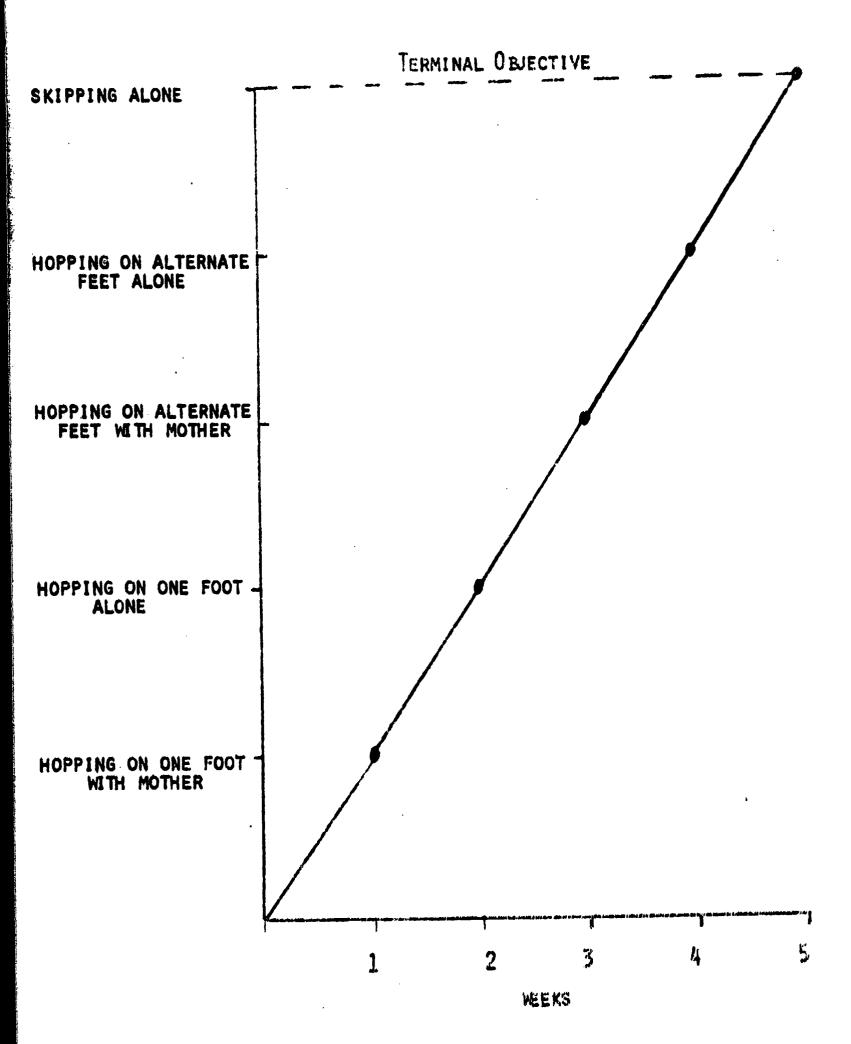
January	September
778 39%	

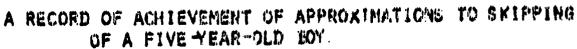
Table 2





A RECOMD OF THE NUMBER OF WRITING RESPONSES DURING DAILY FIVE MINUTE SESSIONS OF A FIVE COULD DAY.







PENNY

CHILD AND REFERRAL PROBLEM

Penny was a four year old girl with an older brother in school and an infant brother at home. Penny's mother had previously provided home based service for her older son and requested the home trainer help her provide the same service for Penny.

Services were provided to help Penny learn to attend to assigned tasks; listen to stories; follow directions; and name colors, shapes, body parts, number sets, and letters. The procedures utilized to help Penny learn letters is presented here.

OBJECTIVE

Given upper case alphabet letters printed on index cards and presented singly the child names each letter

correctly and within 2 seconds of presentation.

MEASUREMENT PROCEDURES

Each day five letters were presented to Penny by her mother.

A "+" was recorded for each letter correctly named within two
seconds of presentation and a "0" was recorded for no response or
an incorrectly named letter. Letters named correctly on two consecutive days were recorded as learned and another letter was presented in its place.

Reliability of measures were obtained weekly by the parent trainer who measured Penny's responses independently.



TEACHING/LEARNING PROCEDURES

During Baseline 1, after the correctness of Penny's letter naming responses was recorded, the cards on which the letters were printed were shuffled and presented to Penny again. If Penny named the presented letter correctly within a two second interval she was priesed and that letter was not presented again that day. If Penny did not name the presented letter correctly within a two second interval that letter was named by Penny's mother and Penny was then asked to name the letter herself, imitating her mother. The same letter was presented again immediately after the next letter in the sequence. Each of the five letters were presented in this manner until all five letters were named correctly on one presentation without the mother's help.

During Contingent Prize 1, conditions were the same as in Baseline 1, except prizes such as trinkets, crayons and games were given contingent upon Penny learning a letter. Penny was allowed to choose from a selection of several decoratively wrapped prizes when she named a letter correctly on two consecutive days.

Baseline 2 conditions were the same as for Baseline 1.

Contingent Prize 2 conditions were the same as for Contingent Prize 1.

RESULTS

During Baseline 1, Penny learned three letters during the 31 days, a rate of .1 letters per day.



÷.

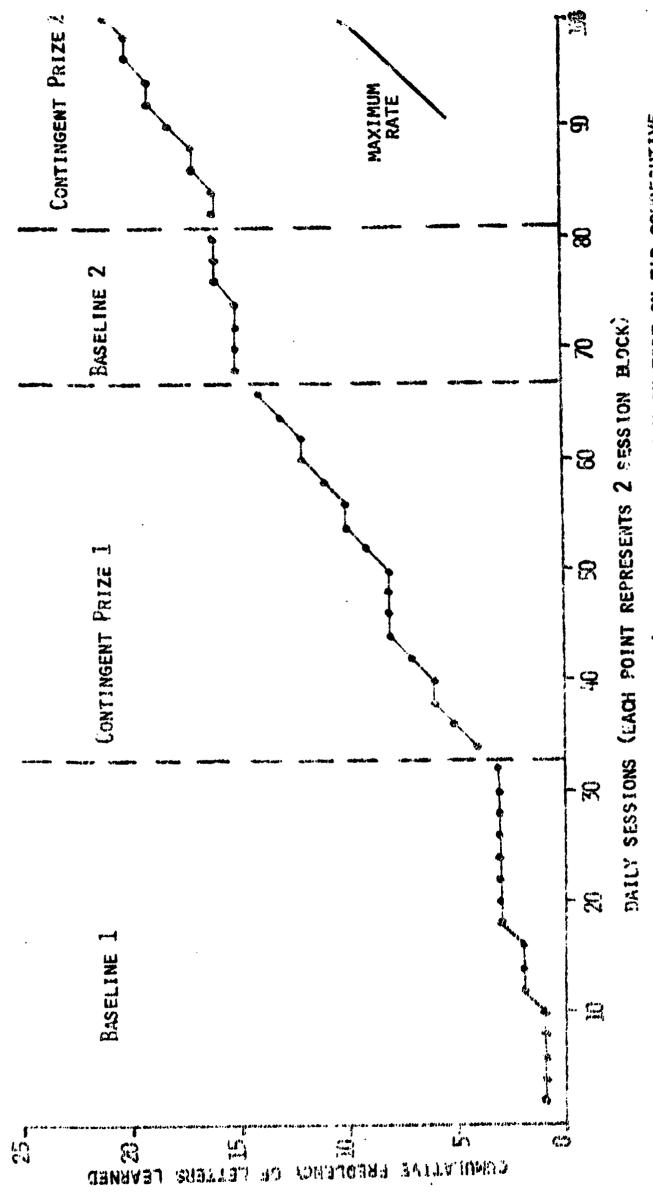
During Contingent Prize 1, the rate increased to .5 for the 17 day period.

One letter was learned during the seven days of Baseline 2. a rate of .1 letters per day.

Five letters were learned during Contingent Prize 2, a rate of 30 letters per day.

The parent trainer observations agreed with the observations of the parent on every occasion.





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CHABLATIVE FREQUENCY OF LETTERS LEARNED (RECOGNIZED CORRECTLY ON TEST ON TWO COMSECUTIVE SESSIONS) DURING DAILY THREE MINUTE SECSIONS.



Lssex Center Martha Knight Mary Carter 1971-1972

CHILD AND PETERRAL PROBLEM

Tommy was a six year old boy with three older and two younger sisters. His parents reported that Tommy needed help in speaking and in learning to get along with both children and adults.

Tommy attended a private kindergarten for six weeks in the fall of 1971 and was expelled because of his disruptive behavior.

In May of 1972 Tommy was evaluated by the Child Development Clinic. he scored 82 on the Wechsler Intelligence Scale for Children.

Tommy subsequently attended the University of Verwent

Special Education Program Summer Development Schoolk, the Trinity

College Diagnostic Clinic during the 1972-1973 school year

an Essex Center Elementary School first grade during the 1:73
1974 school year.

OBJECTIVES 1

During the cay

the child used polite speech (e.g. "please" thank you", "you're velcome"), shares possessions, and praises siblings and parents appropriatel;

MEASUREMENT PROCEDURES

Tommy's mother and father tallied occasions when Tourny

"Seaver, P. A classroom procedure to decrease disturtive cla room behaviors. Journal of Behavioral Education, 1977, Vol. 2 No. 1, pp. 24-28.



used polite speech, shared possessions or praised others appropriately during the day.

TEACHING LEARNING PROCEDURES

During baseline Tommy was not aware that his parents were observing and recording his behavior.

During the contingency condition the recording sheet was a capitaged on the kitchen wall and each tally was paired with parental praise. At the end of the day a "similing face" was drawn on the data sheet.

RESULTS

During the three days of baseline Tommy averaged 10 occusions of "good" behaviors each day.

During the 38 days of the contingency condition "good" behaviors ranged from eight to 42 and averaged 38.6 per day for the final ten days of this condition.

CESTECTIVE 1

During any time of the day

the child uses agreesive speech or actions

on no occasions.

"EASURFMENT PROCEDURES

Two some trudingres visited Tommy's home once each week after the evening meal. They tallied independently the number of aggressive statements and the number of agressive actions or statements and the number of times parents attended to the behaviors. (see objective 1)



J.

TEACHING LEARNING PROCEDURES

The home trainers told Tommy's parents each week that they could nelp Tommy learn to behave by ignoring his aggressive statements and actions and by praising his good behaviors.

On each visit the home trainer praised Tommy's good behaviors and for ignoring his aggressive behaviors.

ECSULTS

The frequency of aggressive statements decreased from 25 to 2 during the three week period. The average percentage of agreement between observers for the three visits was 92%.

The frequency of aggressive actions decreased from eight to zero during the three week period. The average percentage of agreement between observers for the three visits was 88%.

The frequency of parental attention for good behaviors increased from zero to three during the three week period. Percentage of agreement between observers was 100%.

The frequency of parental attention for aggressive behaviors decreased from four to zero during the three week period. Percentage of agreement between observers was 100%.

OBJECTIVE 3

During any time of the day

the child engages in self-stimulatory behaviors that interfere with ongoing activity

on no occasions.

MEASUPEMENT PROCEDURES

Tommy's mother and father recorded the frequency of rocking



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behaviors (defined as moving the torso forward and backward in a rhymic mother) throughout the day.

TEACHING LEARNING PROCEDURES

During baseline rocking behavior was ignored.

During the contingency condition Tommy was allowed to play with his toy guns contingent upon no rocking behavior. The toy guns were a gift given to Tommy six months before but taken away immediately because he hit his sister with them. The guns broke on the 29th day of the contingency condition.

RESULTS

During baseline the frequency of rocking behaviors ranged from three to eight and averaged 4.8 for the five day period.

During the 35 days of contingency no rocking behavior was observed.

OBJECTIVE 4

In spontaneous conversation

the child speaks

with no noticeable articulation or syntax deficit.

MEASUREMENT PROCEDURES

Tommy's father recorded a 5 minute conversation with his son on audio tape each night after dinner. An independent observer listened to the tapes and calculated daily percentages of verbs for which the correct tense was used, daily percentages centages of correctly used personal pronouns, daily percentages



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of correctly articulated words and daily frequency of repetitious (stuttering).

TEACHING LEARNING PROCEDURES

Tommy's father praised Tommy contingent upon correct articulation of words, use of correct verb tense (past or present), correct use of personal pronouns and no repitious. Incorrect usage was ignored.

Started on the tneth day Tommy's father played a card game, Concentration with Tommy. Pictures were drawn on 3" x 5" cards representing words which Tommy could not articulate correctly. Cards were made in duplicate and placed face down on the table. Tommy and his father took turns turning cards over. A player turned over two cards, identifying each card as it was turned over. (e.g. "This is a violet"). If the word and cards phrase were articulated correctly and if the two cards matched the player was allowed to keep the cards. The player who accumulated the greater number of cards won the game.

RESULTS

Forcentages of correctly used personal pronounds increased from an average of 90.2% during the first five days to 100% during the final five days of the 15 day period.

Percentages of correctly used verbs increased from a average of 4% during the first five days to 72.6% during the final five days of the 15 day period.

Percentages of correctly anticolared words averaged 66% curing the first tive days to 68.5% during the final five days.



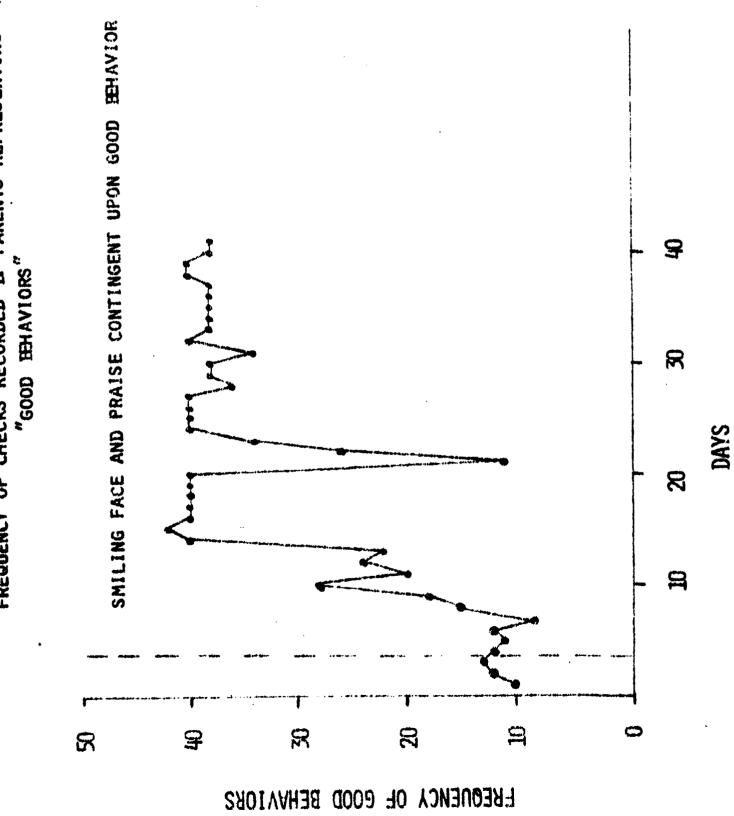
The average number of repetitious (stuttering) during the first five days was three and during the final five days decreased to an average of 1.4.

Table 1 shows the overall scores for the EEEP entry level test over eight months.

January	October
41%	65%

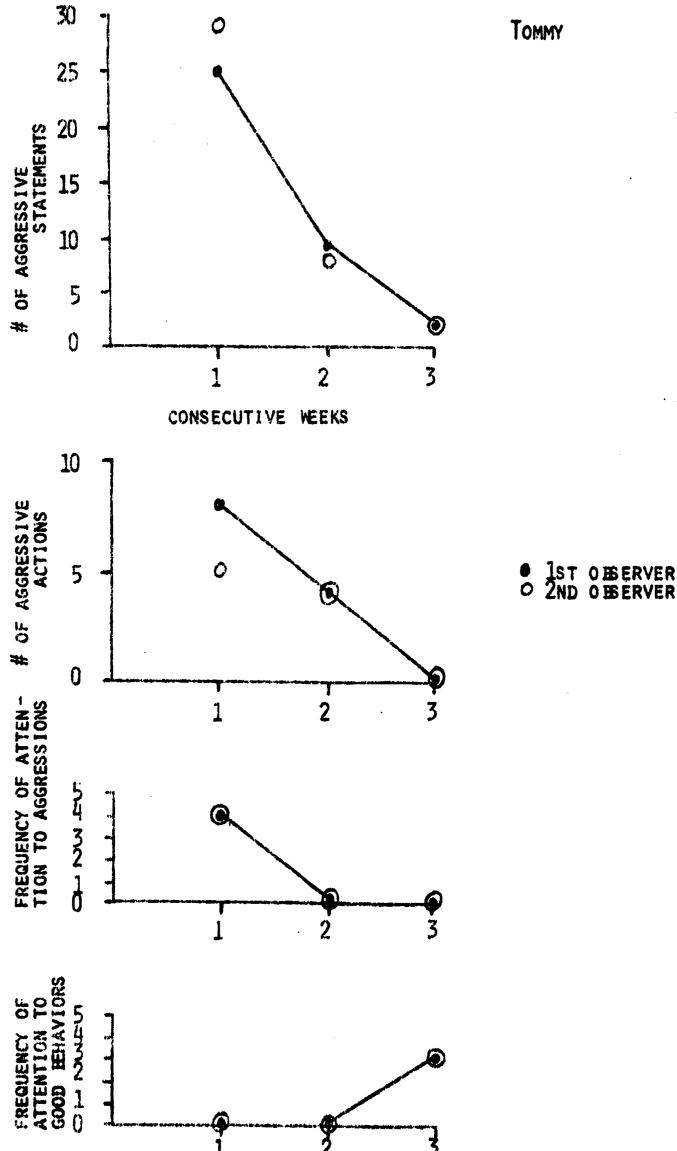
Table 1

FREQUENCY OF CHECKS RECORDED BY PARENTS REPRESENTING

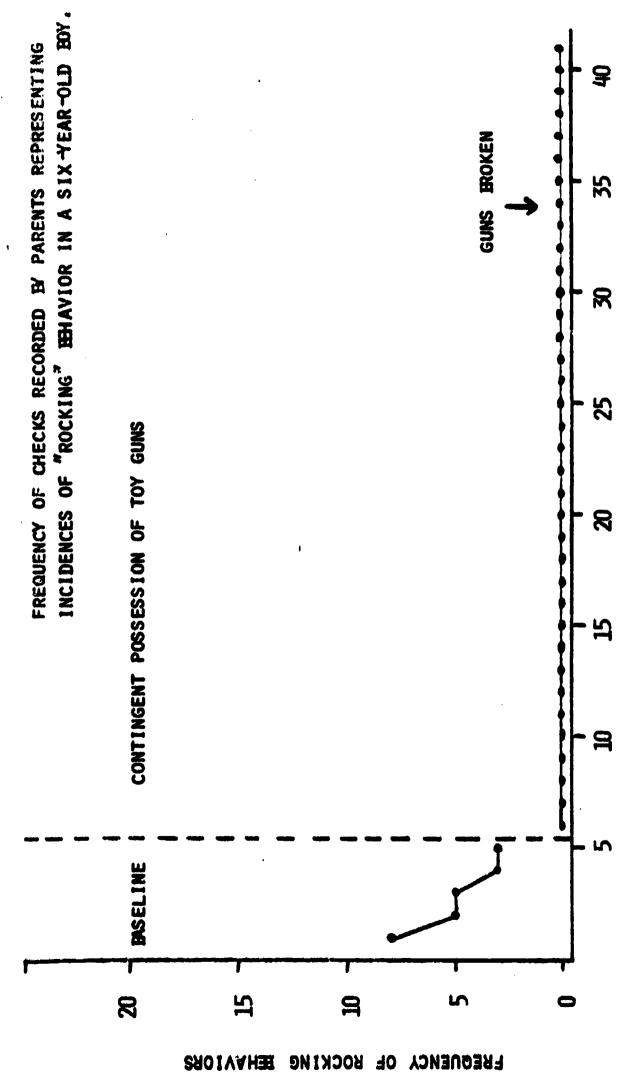






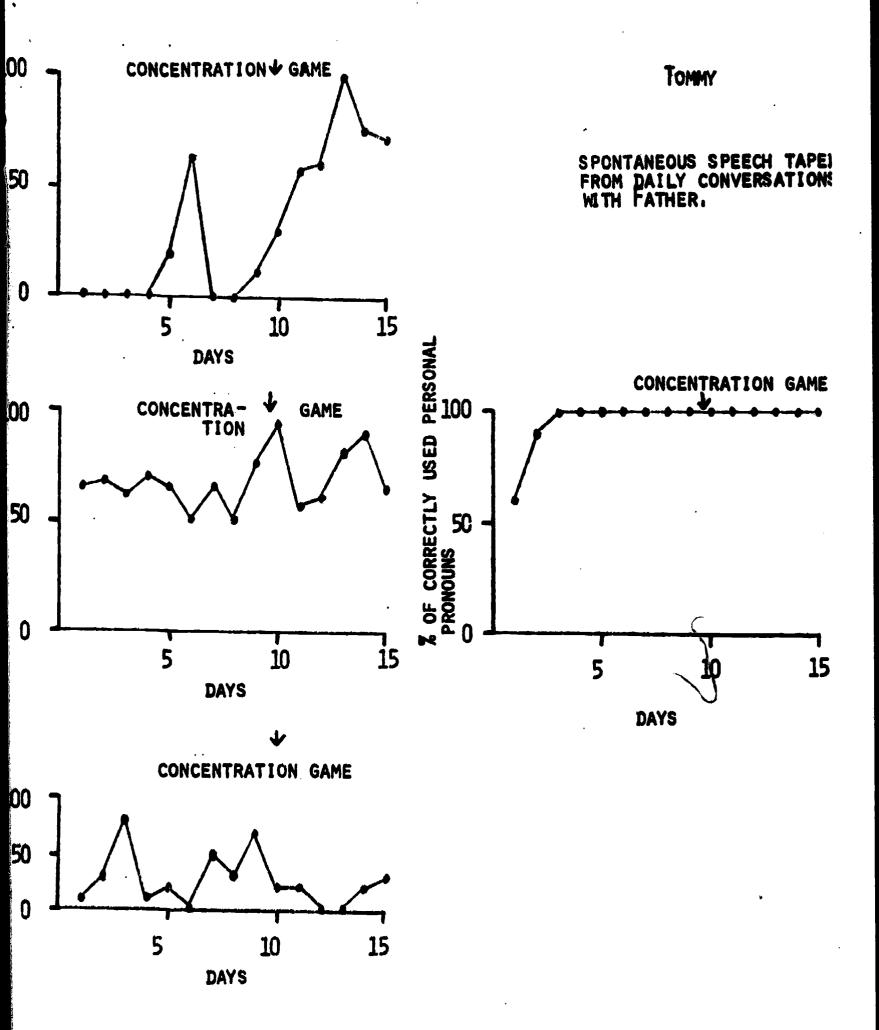






DAYS







HELEN

CHILD AND REFERRAL PROBLEM

Helen was a six year old girl with four older and one younger sibling. She was enrolled in the public kindergarten during the previous (1970-1971) year, but was asked to enroll again the following year because of irregular attendance. Helen was referred by the school district elementary school supervisor because the same pattern of irregular attendance persisted.

Helen's mother reported that her daughter frequently tantrummed and complained of sicknesses while getting ready for school. Occasionally, after Karen arrived at school she ran home and did not return.

OBJECTIVE 1

Given predetermined wake up, breakfast, and school departure times; and mother's presence the child will walk to school and remain in school

for the entire school day.

MEASUREMENT PROCEDURES

Helen's mother recorded when Helen did not attend school, attended school for a portion of the school day or attended school for the entire day. The reliability of these measures was verified through school attendance records. Karen's mother also recorded days when her daughter's complaints of sickness were confirmed by a body temperature above normal (98.6°).



TEACHING/LEARNING PROCEDURES

During baseline 1 times were determined for getting up, eating breakfast and leaving for school. Helen's mother praised her
upon returning home from school when she attended for the entire
day (e.g., "What a big school girl you are, Helen!"). Helen's
teacher also praised her while she was attending school (e.g., "It's
so good to have you here, Helen.").

During instructions and feedback conditions were the same as in baseline except the home trainer who had come only once a week in the afternoon now came more frequently and in the morning. At Helen's home, on three of the seven days, in the morning, a half hour prior to the scheduled school departure time, the home trainer instructed Helen's mother on how to manage Helen and gave the mother immediate feedback when the instructions were followed. Instructions consisted of ignoring irrelevant behaviors (e.g., crying, saying "I don't want to go to school") praising appropriate behaviors (e.g., eating, dressing), and dressing or carrying Helen when she refused to emit these behaviors independently. The home trainer accompanied Helen and her mother on their walk to school.

During baseline 2 the same procedures were used as in baseline 1.

During the instructions and feedback 2 condition the same procedures were used as in the instructions and feedback 1 condition. The home trainer came to Helen's home on three of the four days.

RESULTS

During baseline 1 Helen attended school for the entire school day on five of the 21 days or 24 percent of the time.



During the instructions and feedback 1 condition Helen attended school on six of the seven days or 86 percent of the time.

During baseline 2 Helen attended school on six of the 13 days or 46 percent of the time.

During the instructions and feedback 2 condition Helen at tended school on all of the four days.

Discussion

The district consulting teacher intern, Deborah Giddings
Lawrence, continued to use similar procedures as those described
with the same success. Helen attended school regularly in the
first grade without the use c special procedures.

OBJECTIVE 2

Given printed upper case alphabet letters presented in random order

the child names the letters

100% correctly.

MEASUREMENT PROCEDURES

Each day five letters were presented to Helen by her mother.

A "+" was recorded for each letter correctly named within two
seconds of presentation. A "0" was recorded for no response or
an incorrectly named letter. Letters named correctly on two
consecutive days were recorded as learned and another letter was
presented in its place.

Reliability of measures were obtained weekly by the parent trainer who measured Helen's responses independently.



TEACHING/LEARNING PROCEDURES

After Helen's responses to the five letters was recorded, the letter cards were shuffled to be presented to Helen again. If Helen named the presented letter correctly within a two second interval that letter was named by Helen's mother and Helen was then asked to name the letter herself. The letter was presented again immediately after the next letter in the sequence. Each of the five letters were presented in this manner until all five letters were named correctly on one presentation without mother's help.

RESULTS

Helen learned a total of 20 words in 23 days, a rate of .8 words per day.

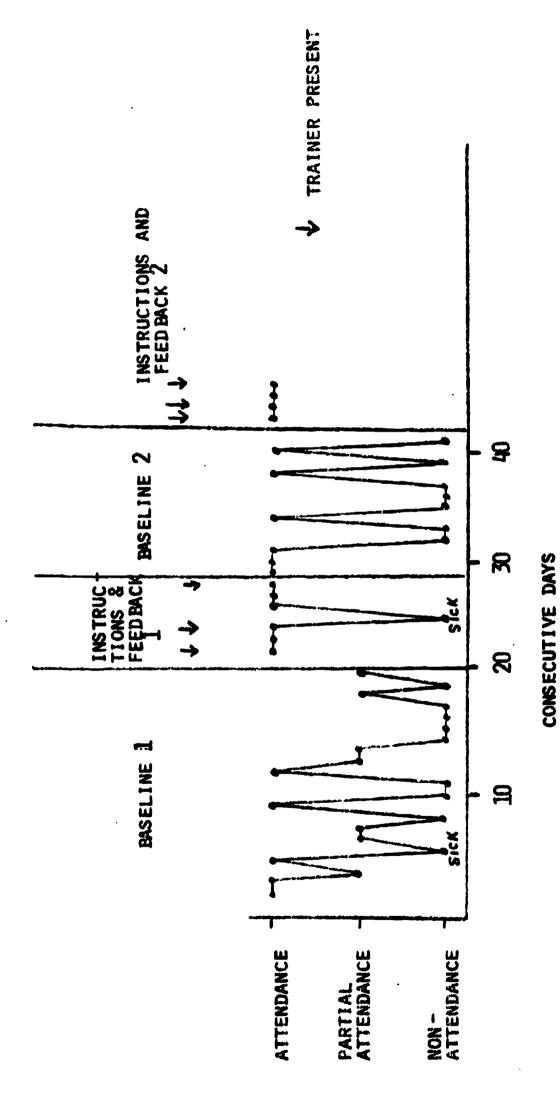
Table I shows the scores for specific objectives over eight months.

Upper case	Feb.	Sept.
letters	.27	.83

Table II shows the overall scores for the EEEP entry level test over eight months.

Feb.	Sept.
84%	95%

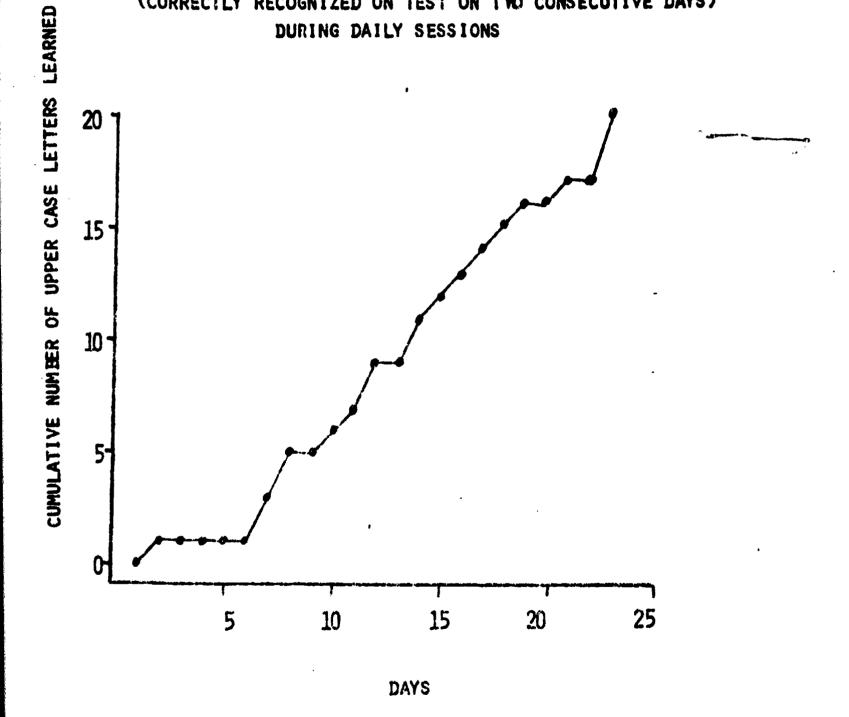




THE SCHOOL ATTENDANCE RECORD OF A SIX YEAR OLD GIRL



CUMULATIVE NUMBER OF UPPER CASE ALPHABET LETTERS LEARNED (CORRECTLY RECOGNIZED ON TEST ON TWO CONSECUTIVE DAYS) DURING DAILY SESSIONS





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LARRY

CHILD AND REFERRAL PROBLEM

Larry was a five year old boy with one older sister and a younger sister and brother. His mother reported that Larry soiled and wet his pants, tantrummed and reversed letters when printing his name.

OBJECTIVE 1

Given directions to do a simple household task (e.g., please bring your dishes to the sink)

the child begins to follow the directions immediately and in a cooperative manner.

MEASUREMENT PROCEDURES

Each day Larry's mother tallied the number of times she gave directions and the number of times directions were not followed and Larry tantrummed. Daily percentages of direction following and tantrumming behavior was determined by dividing the number of incidences by the total number of directions given, multiplied by 100.

TEACHING/LEARNING PROCEDURES

Larry's mother thanked him for completing each task during baseline and contingency conditions.

During the contingency condition, Larry was invited to play a special card game (Spike Whid Mike) with his mother or father



if there were no incidences of tantrumming that day.

RESULTS

During baseline, daily percentages of tantrumming averaged 64 and following direction behavior averaged 30 percent.

When the card game was contingent daily percentages of tantrumming decreased to an average of 20 percent. Following direction behavior increased to an average of 30 percent.

OBJECTIVE 2

When necessary and without prompting or assistance

the child uses the toilet

such that no soiling or wetting of clothing occurs.

MEASUREMENT PROCEDURES

Larry's mother tallied the number of times Larry wet or soiled during the day.

TEACHING/LEARNING PROCEDURES

During baseline, Larry's mother did not use any procedure consistently but occasionally scolded Larry for wetting or soiling.

During the contingency condition Larry's mother praised Larry (at least once each day when no wetting or soiling occurred) for using the toilet. When wetting or soiling occurred, Larry was not scolded but was directed to wash his underpants in the sink.

RESULTS

During baseline, two occasions of wetting or soiling occurred each week.



During contingency there were three occasions of wetting or soiling during the first week and only one occasion during the following three weeks.

OBJECTIVE 3*

Given a predetermined bedtime and directions to go to bed

Larry and his sisters will go to bed

with no noise and without getting out of bed.

MEASUREMENT PROCEDURES

Larry's mother recorded the time when all the children were in bed and quiet each night. On one occasion during each condition an outside observer also observed the children's bedtime behaviors and recorded in the same manner.

TEACHING/LEARNING PROCEDURES

During baseline, Larry's mother and father frequently told Larry and his sisters to go to bed. There was no predetermined bedtime during this condition.

During the contingency condition, a specific bedtime was determined for week days. Larry's mother and father agreed that the children should go to bed at 7:30 p.m. and be quiet by 8:00 p.m. At 7:00 p.m. each evening children were told that when the long hand reached the bottom of the clock, they were to go to bed and that if they went to bed at 7:30 p.m. and were quiet by 8:00 p.m. for that entire week they would earn a new card game on Saturday.

^{*}Every bedtime was accompanied by parental magging and fussing, crying children. This objective was derived when Larry's mother reported that she and her husband were having difficulty getting the children to bed at night.



RESULTS

During baseline the time when the children were in bed and quiet ranged from 9:00 p.m. to 10:00 p.m.

During the contingency condition the children were in bed and quiet by 8:00 p.m. for the two week period.

OBJECTIVE 4

Given a cue and a piece of paper and a pencil

the child writes his name

such that the first letter is upper case and the rest lower case, are printed in order and horizontally, and are of correct size and shape,

MEASUREMENT' PROCEDURES

Larry's mother recorded the number of letters printed correctly on the first trial each day. The percentage of letters
printed correctly was calculated by dividing the number correct
by the total number of letters, multiplied by 100. The parent
trainer also observed and recorded in this same manner once each
week.

TEACHING/LEARNING PROCEDURES

Larry was praised by his mother immediately after correctly printing a letter. Incorrectly printed letters were immediately erased and Larry was instructed to look at a model and print the letter again. This procedure was repeated until all the letters were printed correctly.

RESULTS

During the initial ten days of the 42 days this procedure was



in effect, the percentage of correctly printed letters ranged from 33% to 100% and averaged 71%.

During the final ten days the percentage correct ranged from 83% to 100% and averaged 95%.

OBJECTIVE 5

Given printed upper and lower case letters

the child names the letters

100% correctly within 2 seconds of presentation.

MEASUREMENT PROCEDURES

Each day Larry's mother presented the 13 lower case letters and eight upper case letters which Larry named incorrectly on the EEEP language motor test. She recorded a plus (+) if Larry named the letter correctly within two seconds and a zero (0) if Larry named the letter incorrectly. The percentage of correctly named lower and upper case letters was calculated each day by dividing the number of letters correctly named by the number of letters presented, multiplied by 100.

TEACHING/LEARNING PROCEDURES

After recording Larry's letter naming responses each day
his mother presented each of the cards again. She praised Larry
if he named the letter correctly within two seconds. If Larry
did not name the letter correctly within two seconds, his mother
said the correct letter name and Larry was instructed to say
the letter name while looking at the letter. Letters maked incorrectly were presented again following presentation of the next



card in the sequence. The five letters were presented in this manner until Larry had named each letter correctly within two seconds of presentation.

Occasionally Larry and his mother played "Concentration" with the letters currently being presented. A duplicate set of letter cards were made, the cards were shuffled and placed face down on a table. Larry and his mother then took turns turning over two cards at a time and saying the name of the letters. When the two letters turned over were correctly named and were the same letters that player kept that pair of letters until the end of the game. The player who accumulated the greater number of pairs won the game.

RESULTS

The percentage of correctly named lower case letters increased from 69% on the first day of presentation to 92% on the seventh day.

The percentage of correctly named upper case letters increased from 38% on the first day of presentation to 88% on the fifteenth day.

OBJECTIVE 6

Given the book
Sandwich (EarlyStart Preschool
Readers) and the
11 words contained
therein

the child will read book

such that the words are read 100% correctly with no errors or hesitations.



MEASUREMENT PROCEDURE

Larry's mother presented the 11 words separately printed on 3" x 5" cards. She recorded a plus (*) if Larry named the word correctly and a zero (0) if he named the letter incorrectly. The percentage of correctly named words was calculated by dividing the number of words correctly named by 11, multiplied by 100. This recording procedure was conducted on three occasions throughout the eight day period; on the first, seventh and eighth days.

TEACHING/LEARNING PROCEDURES

Each day for eight days Larry's mother presented each of the 11 words. She praised Larry if he named the presented word correctly within two seconds. If Larry did not name the word correctly his mother said the word and Larry was instructed to say the word while looking at the word. The words were presented daily in this manner until each word was said correctly within two seconds of presentation.

Larry was allowed to read the book for the first time on the eighth day.

RESULTS

The percentage of correct word naming was 18% on the first day, 73% on the seventh day and 82% on the eighth day. Larry read the book without error on the eighth day.



Table 1 shows the scores for specific objectives over eight months.

÷		чение по в темперация выполнять дому пой кідь — водорождован й добур проводу, дай ундару
	January	September
Writes name	.50	.50
Letter Recognition upper case	. 54	. 92
Letter Recognition lower case	.31	. 96

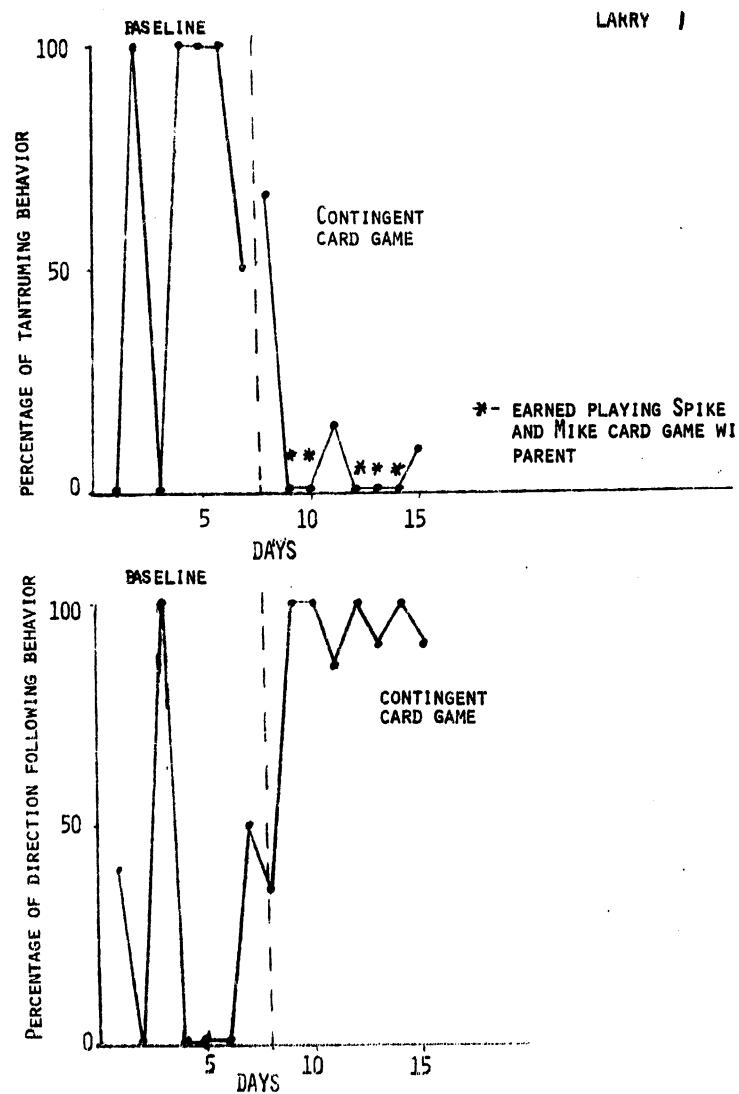
Table 1

Table 2 shows the overall scores for the EEEP entry level test over eight months.

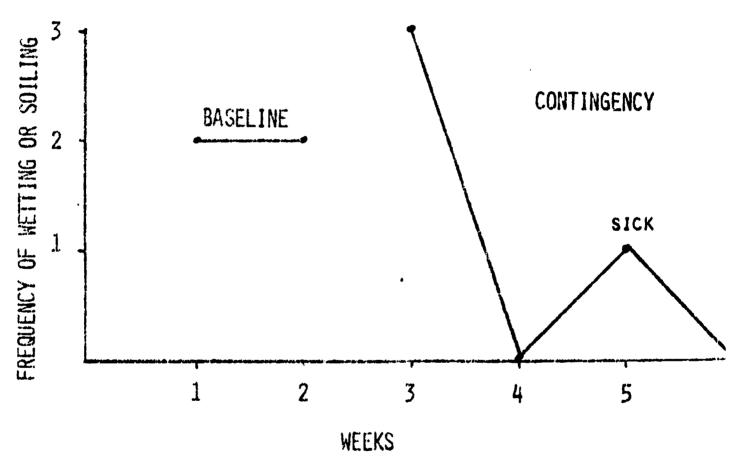
January	September
70%	83%

Table 2

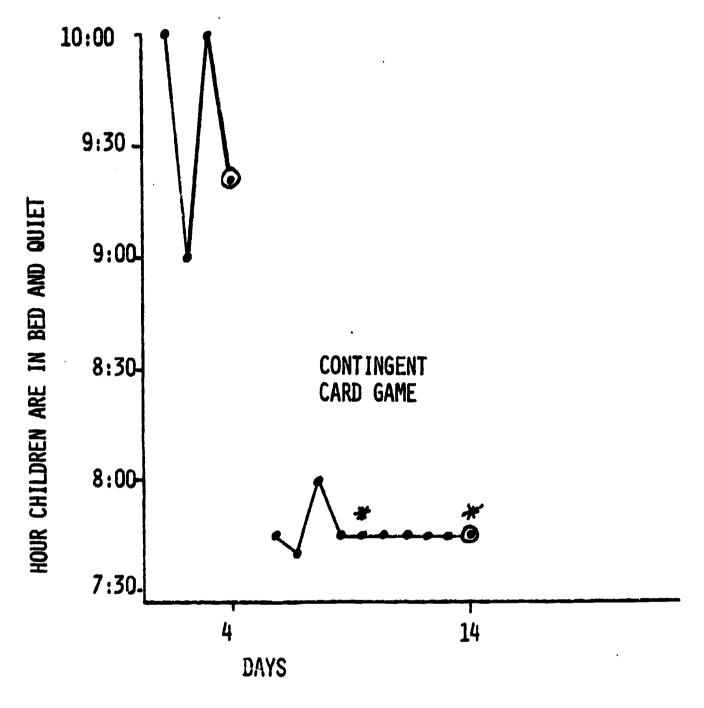




A RECORD OF THE PERCENTAGE OF TANTRUMING AND DIRECTION FOLLOWING BEHAVIOR DN BEING ASKED TO COMPLETE A SIMPLE HOUSEHOLD TASK. ERIC



FREQUENCY OF WETTING OR SOILING DURING CONSECUTIVE WEEKS

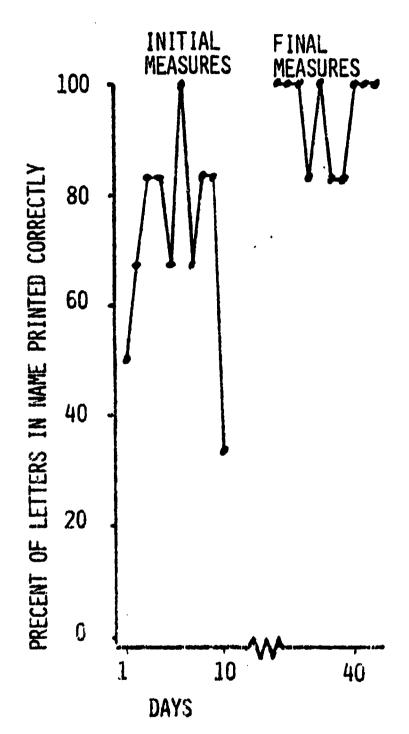


O 2ND OBSERVER PRE

EARNED POSSESSIO
OF NEW CARDS

A RECORD OF THE HOUR WHEN LARRY AND HIS SISTERS WERE IN BED AND QUIET

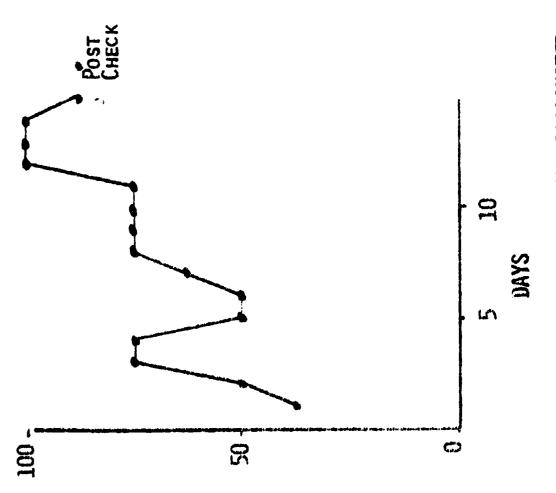




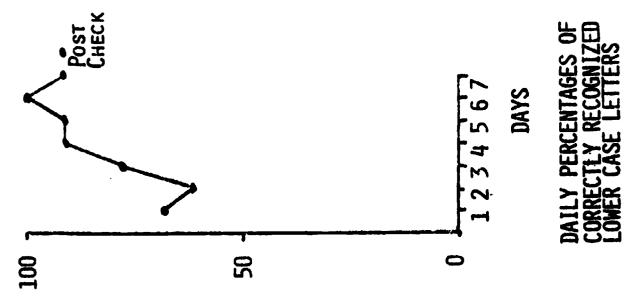
DAILY PERCENTAGES OF CORRECTLY PRINTED LETTERS IN NAME (LARRY)

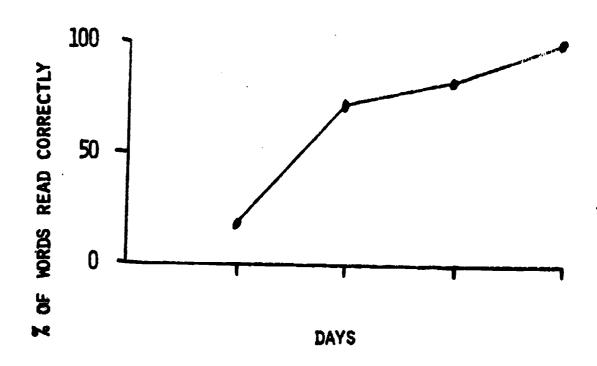






DAILY PERCENTAGES OF CORRECTLY RECOGNIZED





PERCENTAGES OF WORDS READ CORRECTLY IN PRESCHOOL BOOK, <u>SAND WICH</u>, CONTAINING ELEVEN WORDS.



Westford Martha Knight Mary Carter 1971-1972

LENNY

CHILD AND REFERRAL PROBLEM

Lenny was a five year old boy with six older brothers and sisters and one younger brother. His mother reported that Lenny needed help speaking and interacting with his siblings and peers. Lenny attended kindergarten in Fairfax every morning. His teacher also reported that Lenny needed help in speaking and interacting with peers.

OBJECTIVE 1

When in a group (more than 1 person)

the child will interact with the other child(ren) or adult(s) such that he does not refuse to complete a task assigned by an adult and is not physically aggressive toward another child.

MEASUREMENT PROCEDURES

Each day Lenny's mother tallied the frequency of uncooperative behaviors. These included refusal to complete an adult assigned task and being physically aggressive toward another child for 78 days.

From the twenty-eighth day to the seventy-eighth day, Lenny's mother also tallied the frequency of cooperative behaviors.

These included sharing toys with other children and completion of adult assigned tasks without complaining.



TEACHING/LEARNING PROCEDURE

During baseline (days 1-27) Lenny's mother did not record the frequency of cooperative behaviors or praise Lenny systematically.

During the contingency condition (days 28-78) Lenny's mother, father and older sister observed and recorded the frequency of cooperative behaviors.

RESULTS

During baseline the frequency of uncooperative behaviors ranged from 0 to 6 and averaged 2 per day.

During contingency the frequency of uncooperative behaviors ranged from 0 to 2 and averaged .3 per day.

OBJECTIVE 2

Given 20 Peabody Articulation cards (American Guidance Services) and instructions to name the picture by saying, "That is a the child will with no articulaname the pic- tion errors.

MEASUREMENT PROCEDURES

Each day Lenny was presented with 20 Peabody Articulation Cards representing words for which Lenny misarticulated the initial consonant sound. Lenny was instructed to name the picture using the sentence model, "That is a _____."



The sentence was used because it contained the sound "th" which was frequently misarticulated by Lenny. All sounds were selected based on the frequency of errors tallied from daily audio tape recordings of conversations between Lenny and his mother or father.

Cards were presented singly and in the same sequence each day. If Lenny misarticulated any initial sound in the sentence on the first trial a "0" was recorded. The remaining sentences were considered articulated correctly and a "+" was later recorded for these.

Six of the eighteen sessions were recorded on audio tape and scored by a second observer.

TEACHING/LEARNING PROCEDURES

Lenny's mother praised him when he articulated words correctly during the daily sessions. She said for instance, "You said
that. Very nice, Lenny!" or "You said ladder. Good!" When
Lenny misarticulated a word his mother said the word emphasizing
the misarticulated sound and Lenny was instructed to imitate his
mother. This procedure was repeated until the word was articulated
correctly.

Before Lenny was asked to name the 20 pictures in the daily session, the home trainer used the above procedure to insure that Lenny had articulated the sound correctly at least once.

RESULTS

Since percentage of agreement between the mother's data and the observer's data was low for the five occasions when data was



4.

compared, only data recorded on audio tape will be reported.

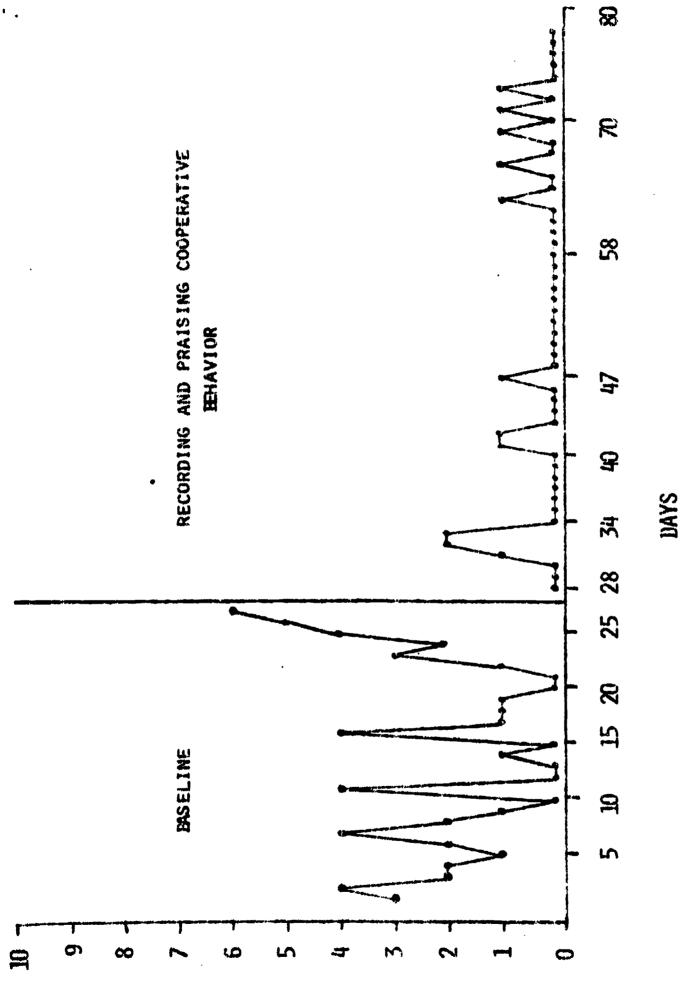
On the first recorded session (day 1) Lenny articulated 20% of the sentences correctly and on the last recorded session (day 18) Lenny articulated 65% of the sentences correctly.

Table 1 shows the overall scores for the EEEP entry level test over eight months.

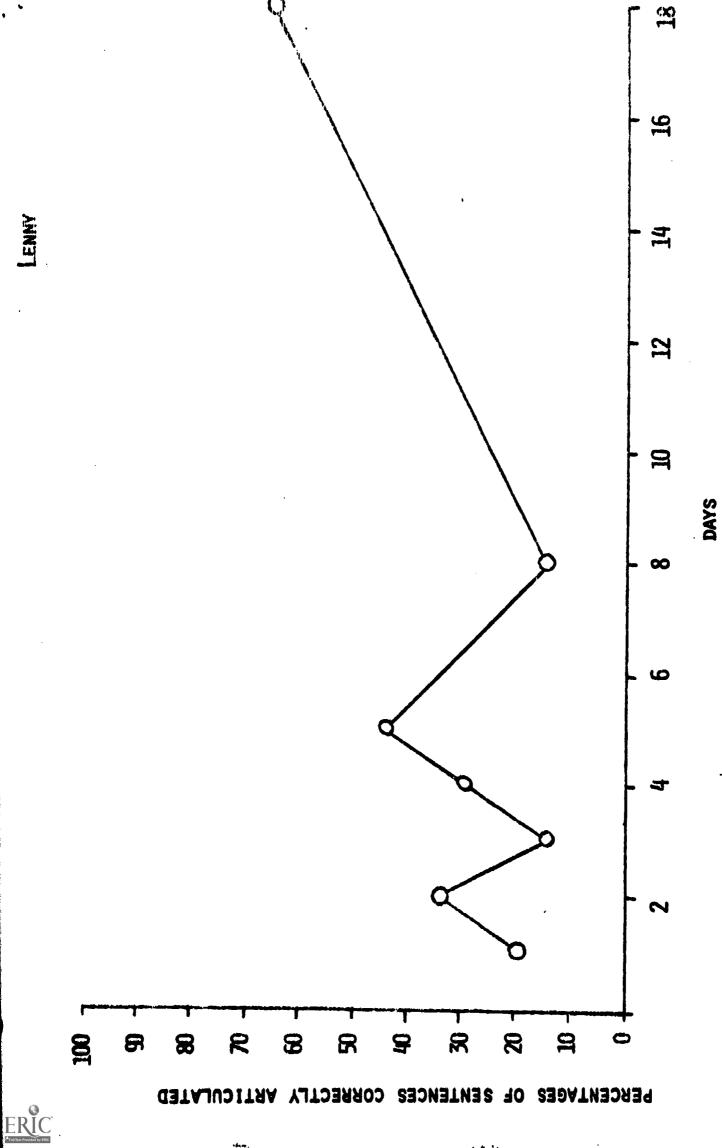
March	September
66%	89%
	<u> </u>

Table 1





FREQUENCY OF UNCOOPERATIVE BEHAVIORS



PERCENTAGES OF 20 SENTENCES CORRECTLY ARTICULATED USING PEABODY PICTURE CARDS.

The Effects of Feedback in Parent Training
Rosemary Getsie, B. J. Lates, Martha Knight, Hugh McKenzie

Introduction

It is well documented that consequences delivered by parents contingent upon their child's behavior may be arranged to promote desired behaviors and eliminate undesirable behaviors in young children. Hall, Axelrod, Tyler, Grief and Jones (1972) trained parents in principles of reinforcement, extinction, and punishment. As a result of the application of these principles, problem behaviors typical in many homes were eliminated. Knight and McKenzie (1970) trained a parent to eliminate bedtime thumbsucking through contingent reading. Herbert (1970) trained mothers to use both material consequences and verbal praise to successfully promote desired behaviors in their children. In a study by Engeln, Knutson, Linwood and Warren (1968) an entire family unit (mother, father and older brother) were trained in reinforcement and extinction procedures. As a result the aggressive behavior of two young brothers was significantly reduced.

It has also been demonstrated that behavior consequences delivered by the parents may be responsible for the transition of a normally behaving child into an oppositional one. Ora and Wagner (1970) reviewed how parents may shape or increase aversive infant behavior through conscientious caretaking. They found that, in general, the parents may not reinforce desirable behaviors very often. However, the parents must attend to normal but undesirable behavior often because much of it is life threatening



or highly aversive. This differential reinforcement serves to increase undesirable behavior and decrease desirable behavior. Hamblin and Territor (1971) demonstrated how the disturbing behavior of autistic children can be maintained by parental reinforcement for the disturbing behavior. They found that when parents were trained to reinforce appropriate behaviors and to ignore inappropriate behaviors, the appropriate behaviors of the autistic child increased.

It seems obvious that early intervention procedures conducted by the parents in their home have at least one major advantage over programs conducted outside the home by other adults. Parents are already established as conditioned reinforcers for their children. There are several other advantages to home-based programs (Shearer and Shearer, 1972). First, learning is occurring in the parent and child's natural environment. Therefore, the problem of generalizing to the home what has been learned in a clinic or classroom does not occur. Second, there is direct and constant access to behavior as it occurs naturally. Third, the maintenance of desired behaviors may be enhanced if the behaviors have been learned in the natural environment. Fourth, the training of parents may provide them with the skills necessary to deal with new behaviors as they occur.

Any program designed to produce changes in children must obviously be "child-centered." However, if the program is to be dependent on parents as teachers, then a great deal of consideration must be given to the aspect of parent training. Parent training procedures must be both effective and efficient.



Parent training may be conducted in a variety of settings.

Hall, Axelrod, Tyler, Grief, Jones, and Robertson (1972)

conducted parent training in a class setting. The parents were

participants in the Responsive Teaching course, and enrolled for

3 credit hours. As part of the course requirement, each parent

implemented procedures to modify his child's behavior. Lectures,

discussions, films and sample case studies were used to train the

parents in observation, measurement and principles of the analysis

of behavior. As a result, each parent carried out a successful

and reliable study, and achieved beneficial changes in their child
ren.

Parent groups have also been used to train parents in behavior management. Galloway and Galloway (1970) established a parent group aimed at improving the behavior of the parents retarded children. Parents were trained, through discussions, to record behaviors and to implement procedures to modify the recorded behaviors. Some parents verified the effectiveness of their procedure by withdrawing the procedures during a reversal phase. Each of the parents who stayed in the group carried out a successful project.

Herbert (1970) trained mothers in a group setting. Discussion and explanations were used to train the mothers in recording and reinforcement procedures. Each mother successfully modified her own child's behavior and then became a "Mother-Trainer" for a new member of the group.

Some studies have reported parent training programs in clinical settings. Hamblin, Buckholdt, Ferriter, Kozloff and Blackwell (1971) trained mothers to function as behavior thera-



pists by having them watch a therapist interact with their children. The mothers then went into the room with the therapist and child and gradually took over the role of the therapist as he withdrew from the interaction. Data taken of the child's behavior both in the home and clinic indicated that the mothers were successfully applying the techniques modeled by the therapist.

Engeln, Knutson, Laughy, and Garlington (1968) trained a mother in a clinic to give differential reinforcement for compliance behaviors to her aggressive sons. Training was accomplished through observations, explanations and modeling. The boys' aggressive behaviors were significantly reduced in the clinic. Although reliable data was not collected in the home or school, anecdotal records from family members and school personnel indicated that non-aggressive behaviors generalized to the home and school settings.

Some home-based programs have implemented parent training procedures in the home. Shearer and Shearer (1972), administrators of the Portage Project, reported that staff members went to the homes and demonstrated recording and teaching/learning procedures for the parent. The parent then practiced the procedures with the staff Member.* Seventh-five children were served in their homes by their parents. As a result, all of the children made significant gains in mental age, I.Q., language, academic development and socialization. The home-based learning program at the University of Vermont (Knight, Hasazi, and McNeil, 1972) also conducted parent training in the home. A

^{*}The staff member thereafter made weekly visits to the home to collect data, take post-baseline data, and give feedback to the parent.



ent. The parent then practiced the procedures and was given feed-back on his performance from the trainer. One example of the success of the home-based program was with a five-year-old Down's Syndrome child. As a result of the procedures implemented by his mother, the child was transferred from a school for the retarded to a special class in a regular elementary school.

Most of the previously cited articles mention the necessity of providing feedback to parents for-their performance. Herbert (1970) relied on other mothers who had been through the program to give support to "new" mothers in the program. Mother trainers provided feedback and moral support through telephone calls and personal contacts. This procedure was considered to be very effective, as judged by the performance and enthusiasm of the participants. Shearer and Shearer (1972) found that 30% of the parents made no recordings in the first month. Praise and sometimes more tangible reinforcers, such as babysitting service, were used to reinforce recording behavior. Galloway and Galloway (1970) encouraged all parents in their parent-group to give feedback and support to one another. Although there was some attrition among the parents, those who remained carried out successful projects with their children. Knight, Hasazi and McNeil (1972) also made mention of providing feedback to parents for their performance. On each weekly visit the parent was given praise and suggestions from the trainer.

The proposed research project will further assess the role of feedback for initiating and maintaining parent performance.



It is designed to evaluate the frequency of feedback necessary to train parents in their homes as effective teachers for their children.

Behavioral Definitions

Parent behaviors were defined as:

- 1) Presentation five cards are presented to the child three times during each session. Flashcards are presented in the order listed on Figure 1.
- 2) Recording child's correct responses are recorded as a "+", incorrect responses are recorded as a "0" on the data sheets.
- Procedures the parent waits only three seconds before telling the child the correct response. The parent gives only those prompts or cues that have been specified.
- 4) Praise parent gives verbal praise for correct and imitated responses made by the child.

Child Behavior: Phonics Training Objectives

Given 26 upper-case alphabet letters and 26 lower-case letters printed on flashcards

the child will identify each letter by saying its name

within 3 secs. for at least 90% of the letters.

Given 20 consonants, 5 vowels and 15 consonant blends printed on flashcards

the child will give the phoneme sound that corresponds to each consonant, vowel, or blend within 3 secs. for at least 90% of the letters. curacy will be judged accoming to examples of phoneme chart (Figure 1).

Given a spoken word and a cue

the child will name the initial consonant or consonant blend of the word for at least 29 of the 34 words.

Phonics training was chosen as the target behavior because:

1) The skill areas were components of the minimum objectives



specified by teachers for entering first graders.

- 2) The skills were discrete behaviors.
- 3) The skills were operant behaviors under the discriminated control of printed and verbal stimuli.
- 4) Acquisition of the skills required the presentation of antecedent and consequential stimuli.
- 5) The skills required verbal responses, and acquisition of the skills would require many learning sessions.

Measurement

Experimenter's Procedures:

Each time the experimenter visited the home, data sheets of the child's responses were collected. To determine whether or not appropriate antecedent and consequential stimuli were made available to the child, the experimenter kept data sheets identical to the parents' sheets and had the parents make a tape recording of each learning session. The experimenter listened to the tapes and recorded the cards presented, the child's responses and the parents' responses. Recordings were made on a data sheet similar to the one on Figure 2.

Data obtained from the tapes was then compared to the previous day's data. In this way the experimenter was able to de-' termine whether the correct card was presented at the correct time and whether correct and/or incorrect responses were followed by appropriate consequential stimuli.

The experimenter recorded a "+" beside each step of the procedures conducted according to criteria, and a "0" for each



step that did not meet criteria. Fifteen responses were recorded for each of the four steps for a total of 60 responses. The number of correct responses was depicted graphically for each of the four steps (Figure 3).

The experimenter recorded all data either during learning sessions with the parent or by listening to tape recordings of the sessions.

Reliability of the experimenter's measurement procedures was taken at least once a week by an independent observer. The independent observer either listened to the tapes and recorded the same data as the experimenter or recorded data simultaneously with the experimenter during learning sessions with the parent.

Parent Procedures

The parent recorded the child's verbal responses to vowels, consonants and blends printed on flashcards and his verbal responses to cues and spoken words. The letters presented or words spoken were entered on a data sheet in the order in which they were to be presented. Presentation order for the alphabet letters and spoken words was taken from the EEEP entry level tests. The fifteen consonant blends were printed on flashcards and then shuffled to determine a non-systematic order of presentation.

If the child responded correctly to a flashcard or spoken word, a "+" was entered in the appropriate box. If the child responded incorrectly, or failed to respond within three seconds, the parent entered a "0". A percentage of response accuracy was calculated by dividing the total number of correct responses by the total number of responses, multiplied by 100.



Reliability of the measurement procedures was obtained in two ways. First, the experimenter recorded the same data in the same manner as the parent during the same session. Secondly, the parent made a tape recording of each learning session. The tape recording was then played at a later time by the experimenter. The experimenter recorded the child's responses in the same way the parents did during the learning session.

Data taken by the parents and the experimenter was compared and a percentage of agreement calculated by dividing the total number of agreements by the total number of responses, multiplied by 100.

It was assumed that if the parent conducted the procedures accurately when the experimenter was present, the data obtained from the tape recordings made in the experimenter's absence was also accurate:

Experimenter Procedures

Before the parent implemented the phonics training procedures with the child, the experimenter conducted pre-baseline training sessions with her. The parent was trained in the use of flash-cards, data sheets, the tape recorder, the delivery of contingent reinforcement, and the phoneme sounds were reviewed for her.

Verbal instructions were paired with practice sessions.

The experimenter had the parent go through each step of the procedures. The parent and the experimenter each played the role of the child at least once. Practice was continued until the parent exhibited perfect performance for the required tasks.



The experimenter praised the parent's efforts at every opportunity.

The experimenter also observed the parent in a practice session with the child. The parent then received feedback on her performance with the child.

When the parent demonstrated that she had the necessary skills to implement the procedures effectively, the experimenter began taking measures of her behaviors.

Baseline:

During this condition the experimenter contacted the parents only after the procedures had been implemented for one week. The experimenter visited the home and collected the first week's data sheets and tape recordings of the learning sessions. A reliability check of the measurement and teaching/learning procedures was also done. This visit was approximately 30 minutes long. The experimenter praised the parent for her efforts related to the defined parent behaviors. The experimenter answered any questions the parents may have had regarding the procedures. Comments on the child's performance were made only in regard to the parents' procedural questions.*

The parent also received a weekly feedback sheet, similar to the experimenter's data sheet (Figure 3). The experimenter wrote praise notes next to appropriate parent behaviors as defined and ignored those that did not satisfy the definitions. Written feedback was also given for those procedures conducted in the experimenter's presence.

^{*}These baseline conditions were in effect for two weeks.



Contingency:

During contingency the experimenter visited the home every day for approximately six minutes. Reliability measures were taken from the tape, with the exception of the constant weekly reliability check and feedback given to the parents for their performance.* Comments on the child's performance continued to be reserved. Daily feedback was given for two weeks.

Baseline,:

During this condition, baseline procedures were reinstated to determine the effectiveness of the daily feedback contingency.

Contingency:

After the effectiveness of daily feedback had been determined, daily home visits were again made. During this condition the home visits were faded out, replaced by daily phone calls. The fading process was continued until the parent received only intermittent feedback.

Parent:

Phonics training was divided into six skill areas: 1)
upper-case letter recognition, 2) lower-case recognition, 3)
consonant sound identification, and 6) naming initial consonant
or blend sounds.

The same procedure was followed for each skill. Skills were presented in the above order and each skill was mastered before the next skill was presented.

The 52 alphabet letters (upper and lower case) and 15 consonant blends were printed on word lists in the non-systematic

^{*}Again the parent was given a written sheet after the procedures had been conducted.



order described above (Figure 3). Thirty-five words, 20 beginning with single consonants and 15 beginning with consonant blends, were listed in the same way.

Upper and Lower Case Letter Recognition:

To determine the child's entry level for letter recognition, the parent directed the child to name each letter on the lists.

The parent recorded the child's responses in the manner described above.

After each response, or after three seconds expired, if he failed to respond, the child was directed to go on to the next letter on the list. No feedback for correct or incorrect responses was given.

Entry level testing was kept from five to ten minutes in length and was repeated until the child's entry level was determined.

Learning Session Procedures:

Each letter that was responded to incorrectly on the entry level test was printed on a 3 x 5 card. Data sheets were prepared. The first five letters missed on the entry level test were printed on the data sheet and the cards stacked in the same order as they appeared on the data sheet.

Each card was presented to the child three times in a session, for a total of 15 responses for each session. If the child responded with the correct name within three seconds, the parent verbally praised the child and recorded a "+" on the data sheet. If the child responded incorrectly or failed to respond within three seconds, the parent said the name aloud and had the child



imitate the response while looking at the card. A "0" was recorded on the data sheet.

A letter was considered "learned" when three consecutive correct responses were recorded in any one learning session. The child was permitted to keep any letter cards that he had learned. Upper-case letters were presented first. When they were learned the lower-case letters were presented.

Consonant, Vowel and Blend Sound Identification:

The same procedures, described above, were used for these three skill areas. However, in addition to naming each letter, the child was asked to give the phoneme sound which corresponded to the letter.

Naming Initial Sounds:

For this skill, flashcards were not used. The parent had a list of 35 words on a data sheet. He said the word and asked the child to tell the name of the letter or letters that the word began with.

The verbal praise given after each correct response was paired with other conditioned or primary reinforcement. The parent gave tokens for each correct response, which could be exchanged later for some appropriate reinforcer.

Research Design:

An ABAB research design was used for the parent behaviors.

When reinforcement other than verbal praise was used with the child, on ABAB design was used for the child behaviors. If verbal praise alone is effective for phonics training, an AB design will be used.



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Figure 1

Consonant Sounds		Consonant	Consonant Blends		
Consonant	Word example	blend	word example		
p	pet	ch	<u>ch</u> urch		
Ъ	<u>b</u> ed	sh	<u>sh</u> ow		
t	<u>t</u> an	sk	<u>sk</u> ate		
d	do	sm	<u>sm</u> all		
k	<u>k</u> ite	sn	snow		
g	go	sp	<u>sp</u> ell		
f	<u>f</u> old	st	stand		
v	<u>v</u> isit	sw	swing		
s	<u>s</u> ay	tw	twin		
z	zip	br	brew		
1	lull	bl	<u>bl</u> ack		
m	man	gl	give		
n	none	pl	play		
r	ro a r	fr	front		
у	you	tr	train		
h	<u>h</u> is				
w	wave				
j	<u>j</u> ump	Vowel Sou	Vowel Sounds		
С	cow				
ħ	hat	<u>Vowel</u>	Word example		
		a	dr <u>a</u> ma		
		e	it <u>e</u> m ·		
		i	dev <u>i</u> l		
		Ö	button		
		u.	circus		



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	BEHAVIOR	Presentation Five cards presented three times in correct order.	Recording Correct responses recorded as a "+", incorrect re- sponses recorded as a "0".	Frocedures Farent Waits only three seconds, and tells only correct response.	Praise

Parent gives verbal praise

for correct and imitated

resicnses.

Figure 3
Order of Letter Presentation

Upper-Case Letters in Non-Systematic Order		Vowels in Non-Systematic Order		
L	J .	0		
D	C	ŗ		
Y	T	U		
M	G	A		
В	F	• · · · · · · · · · · · · · · · · · · ·		
K	Н			
P	S			
V	· Z			
	N			

Lower-Case Letters in Non-Systematic Order		Consonant Blends in Non-Systematic Order		
W	r	ch	fr	
1	j	sh	st	
d	c	sk	tw	
y	t	sm	br	
m	g	sn	gl	
b	f	sp	bl	
k	h	tr	sw	
P	s	pl		
v	z	•		
	n			



Figure 4

Words for Initial Sounds

<u>k</u> ing		
mat		
church		
dog		
shoe		
<u>sk</u> y		
<u>p</u> ig	•	
wet		
yes		
small		
wona		
<u>sp</u> eak		
ten		•
nest		
<u>tr</u> ain		
plane		
<u>fr</u> ont		

<u>z</u>00 ghost <u>l</u>amb stairs <u>tw</u>in fine - . jump brown <u>s</u>ign vest give <u>L</u>iue hat run poy <u>sw</u>im



